



Mr. Mcebo Mkhathshwa  
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Date:  
26 February 2025

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**LRP01PLA000 \_0439/20250212**

Dear Mr. Mkhathshwa

**LETHABO POWER STATION EMISSION MONTHLY REPORT FOR JANUARY 2025**

Please find attached Lethabo Power Station emission report for the month of January 2025.

Also attached are the Ambient Air Quality Monitoring Report, Complaints Register and the Fugitive Dust Fallout Monitoring Report for January 2025.

For any additional information please do not hesitate to contact us.

Yours sincerely

**Karabo Rakgolela**  
**GENERAL MANAGER**

**Generation Division (Cluster 1)**  
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Eskom Holdings SOC Ltd Reg No 2002/015527/30



Report

Lethabo Power Station

Report name: **Lethabo Power Station  
January 2025  
Emission Report**

Reference number: **LRP01PLA000 \_0439/20250212**  
Document Type: **Report**  
Area of Applicability: **Environment**  
Report Date: **February-2025**  
Classification: **Controlled Disclosure**

Signatures:

Compiled by:

  
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Boiler Engineer

Date: 26 / 02 / 2025

Verified by :

  
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Senior Advisor

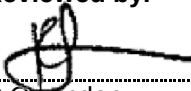
Date: 2025 02 27

Reviewed by:

  
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BPE Manager

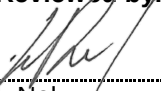
Date: 2025/02/27

Reviewed by:

  
C. Govinden  
PE Manager

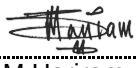
Date: 2025/02/27

Reviewed by:

  
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C&I Manager

Date: 2025-02-27

Reviewed by:

  
M. Hariram  
Environmental Manager

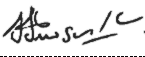
Date: 2025/02/27

Reviewed by:

  
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Date: 2025/03/11

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**LETHABO POWER STATION MONTHLY EMISSIONS REPORT**

Atmospheric Emission License FDDM-MET-2011-08-P1


**1. RAW MATERIALS AND PRODUCTS**

| Raw Materials and Products | Raw Material Type         | Units  | Maximum Permitted Consumption Rate    | Consumption Rate Jan-2025           |
|----------------------------|---------------------------|--------|---------------------------------------|-------------------------------------|
|                            | Coal                      | Tons   | 2 000 000                             | 957 190                             |
|                            | Fuel Oil                  | Tons   | 1 700                                 | 1682.920                            |
|                            |                           |        |                                       |                                     |
| Production Rates           | Product / By-Product Name | Units  | Maximum Production Capacity Permitted | Indicative Production Rate Jan-2025 |
|                            | Energy                    | GWh    | 2 834.640                             | 1 332.041                           |
|                            | Ash                       | Tons   | 770 000                               | 345 641.248                         |
|                            | RE Ash                    | kg/MWh | Not Specified                         | 259.482                             |

Note: Maximum energy rate is as per the maximum capacity stated in the AEL:  $[3\ 810\ \text{MW}] \times 24\ \text{hrs} \times \text{days in Month} / 1000$  to convert to GWh.

**2. ENERGY SOURCE CHARACTERISTICS**

| Coal Characteristic | Units | Stipulated Range | Monthly Average Content |
|---------------------|-------|------------------|-------------------------|
|                     |       |                  |                         |
| Sulphur Content     | %     | 0.656 (Standard) | 0.740                   |
| Ash Content         | %     | 37.37 (Standard) | 36.110                  |

Note: The "standard" is not necessary a limit, but merely a optimum indication, it will fluctuate as the coal quality changes. The Stipulated Range are the Station acceptance test values.

### 3. EMISSION LIMITS (mg/Nm<sup>3</sup>)

| Associated Unit/Stack | PM  | SO <sub>2</sub> | NO <sub>x</sub> |
|-----------------------|-----|-----------------|-----------------|
| Unit 1                | 100 | 3500            | 1100            |
| Unit 2                | 100 | 3500            | 1100            |
| Unit 3                | 100 | 3500            | 1100            |
| Unit 4                | 100 | 3500            | 1100            |
| Unit 5                | 100 | 3500            | 1100            |
| Unit 6                | 100 | 3500            | 1100            |

### 4. ABATEMENT TECHNOLOGY (%)

| Associated Unit/Stack | Technology Type                  | Efficiency Jan-2025 | Technology Type | SO <sub>3</sub> Utilization Jan-2025 |
|-----------------------|----------------------------------|---------------------|-----------------|--------------------------------------|
| Unit 1                | Electrostatic Precipitator (ESP) | 99.57%              | SO <sub>3</sub> | 95.6%                                |
| Unit 2                | Electrostatic Precipitator (ESP) | 99.76%              | SO <sub>3</sub> | 93.5%                                |
| Unit 3                | Electrostatic Precipitator (ESP) | Unit Off-line       | SO <sub>3</sub> | Off-line                             |
| Unit 4                | Electrostatic Precipitator (ESP) | 99.65%              | SO <sub>3</sub> | 96.2%                                |
| Unit 5                | Electrostatic Precipitator (ESP) | 99.41%              | SO <sub>3</sub> | 90.3%                                |
| Unit 6                | Electrostatic Precipitator (ESP) | 99.61%              | SO <sub>3</sub> | 94.3%                                |

Note: ESP plant does not have bypass mode operation, hence plant 100% Utilised.

### 5. MONITOR RELIABILITY (%)

| Associated Unit/Stack | PM   | SO <sub>2</sub> | NO    |
|-----------------------|------|-----------------|-------|
| Unit 1                | 96.6 | 99.3            | 99.1  |
| Unit 2                | 98.7 | 99.3            | 99.3  |
| Unit 3                | Off  | Off             | Off   |
| Unit 4                | 87.8 | 100.0           | 96.4  |
| Unit 5                | 92.9 | 100.0           | 100.0 |
| Unit 6                | 99.0 | 100.0           | 100.0 |

Note: NO<sub>x</sub> emissions is measured as NO in PPM. Final NO<sub>x</sub> value is expressed as total NO<sub>2</sub>

## 6. EMISSION PERFORMANCE

Table 6.1: Monthly tonnages for the month of January 2025

| Associated Unit/Stack | PM (tons)      | SO <sub>2</sub> (tons) | NO <sub>x</sub> (tons) |
|-----------------------|----------------|------------------------|------------------------|
| Unit 1                | 355.3          | 2 746                  | 1 313                  |
| Unit 2                | 157.6          | 3 004                  | 1 105                  |
| Unit 3                | Off            | Off                    | Off                    |
| Unit 4                | 114.0          | 1 376                  | 624                    |
| Unit 5                | 368.7          | 2862                   | 958                    |
| Unit 6                | 255.9          | 3 322                  | 1 521                  |
| <b>SUM</b>            | <b>1 251.4</b> | <b>13 310</b>          | <b>5 522</b>           |

Table 6.2: Operating days in compliance to PM AEL Limit - January 2025

| Associated Unit/Stack | Normal    | Grace     | Section 30 | Contraven-<br>tion | Total Exceedance | Average PM (mg/Nm³) |
|-----------------------|-----------|-----------|------------|--------------------|------------------|---------------------|
| Unit 1                | 21        | 5         | 0          | 1                  | 6                | 402.5               |
| Unit 2                | 18        | 7         | 0          | 0                  | 7                | 91.6                |
| Unit 3                | Off       | Off       | Off        | Off                | Off              | Off                 |
| Unit 4                | 10        | 2         | 0          | 0                  | 2                | 181.9               |
| Unit 5                | 8         | 13        | 0          | 0                  | 13               | 246.1               |
| Unit 6                | 24        | 4         | 0          | 0                  | 4                | 310.0               |
| <b>SUM</b>            | <b>81</b> | <b>31</b> | <b>0</b>   | <b>1</b>           | <b>32</b>        |                     |

Table 6.3: Operating days in compliance to SO<sub>2</sub> AEL Limit - January 2025

| Associated Unit/Stack | Normal     | Grace    | Section 30 | Contraven-<br>tion | Total Exceedance | Average SO <sub>2</sub> (mg/Nm³) |
|-----------------------|------------|----------|------------|--------------------|------------------|----------------------------------|
| Unit 1                | 28         | 0        | 0          | 0                  | 0                | 1 626.5                          |
| Unit 2                | 25         | 0        | 0          | 0                  | 0                | 1 754.9                          |
| Unit 3                | Off        | Off      | Off        | Off                | Off              | Off                              |
| Unit 4                | 13         | 0        | 0          | 0                  | 0                | 1 483.0                          |
| Unit 5                | 22         | 0        | 0          | 0                  | 0                | 1 812.8                          |
| Unit 6                | 29         | 0        | 0          | 0                  | 0                | 1 917.1                          |
| <b>SUM</b>            | <b>117</b> | <b>0</b> | <b>0</b>   | <b>0</b>           | <b>0</b>         |                                  |

Table 6.4: Operating days in compliance to NOx AEL Limit - January 2025

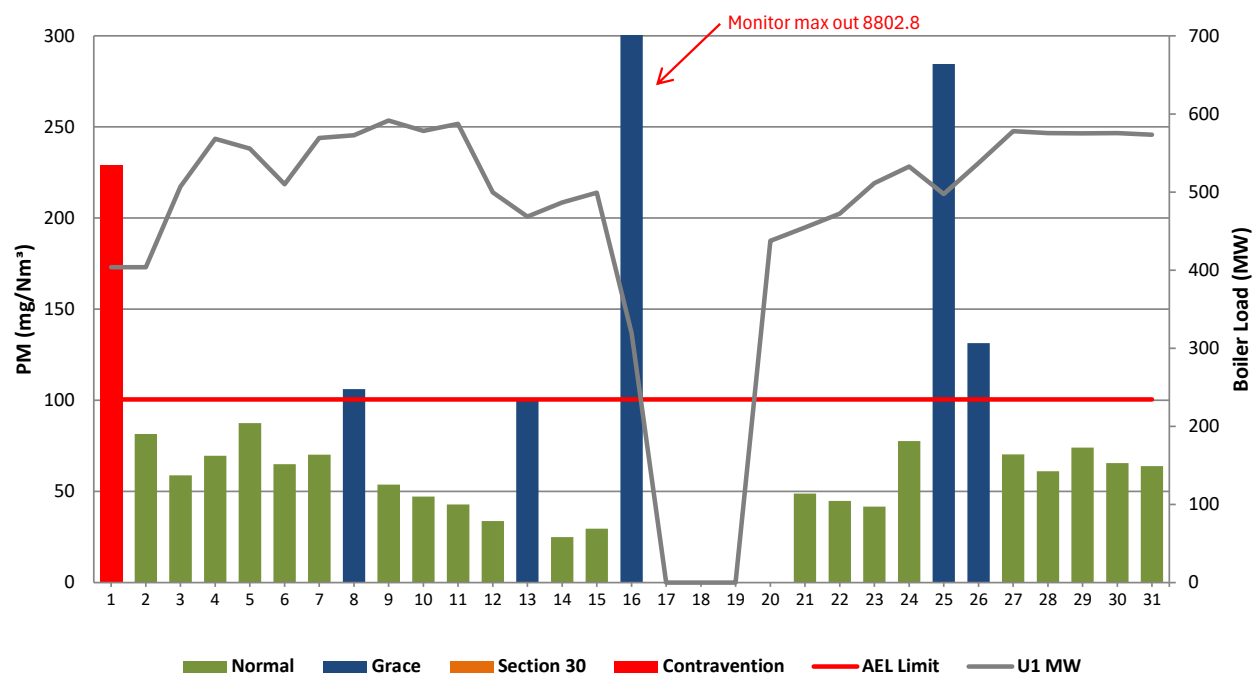
| Associated Unit/Stack | Normal     | Grace    | Section 30 | Contravention | Total Exceedance | Average NOx (mg/Nm³) |
|-----------------------|------------|----------|------------|---------------|------------------|----------------------|
| Unit 1                | 28         | 0        | 0          | 0             | 0                | 776.5                |
| Unit 2                | 25         | 0        | 0          | 0             | 0                | 646.4                |
| Unit 3                | Off        | Off      | Off        | Off           | Off              | Off                  |
| Unit 4                | 13         | 0        | 0          | 0             | 0                | 642.2                |
| Unit 5                | 22         | 0        | 0          | 0             | 0                | 605.2                |
| Unit 6                | 29         | 0        | 0          | 0             | 0                | 871.0                |
| <b>SUM</b>            | <b>117</b> | <b>0</b> | <b>0</b>   | <b>0</b>      | <b>0</b>         |                      |

Note: NOx emissions is measured as NO in PPM. Final NOx value is expressed as total NO<sub>2</sub>

Table 6.5: Legend Description

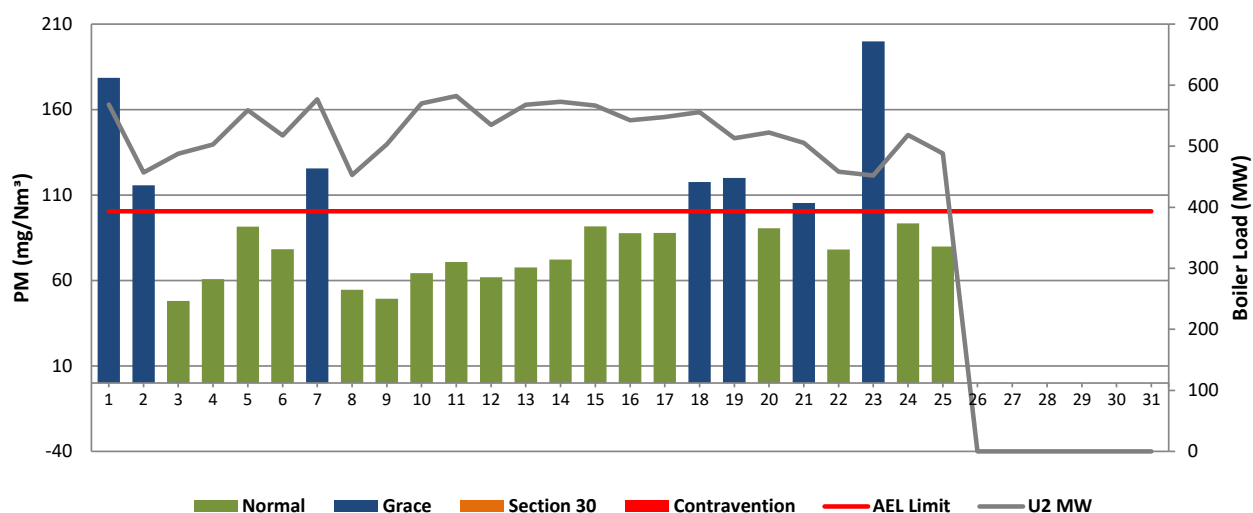
| Condition     | Colour | Description                                                      |
|---------------|--------|------------------------------------------------------------------|
| Normal        | GREEN  | Emissions below Emission Limit Value (ELV)                       |
| Grace         | BLUE   | Emissions above the ELV during grace period                      |
| Section 30    | ORANGE | Emissions above ELV during a NEMA S30 incident                   |
| Contravention | RED    | Emissions above ELV but outside grace or S30 incident conditions |

**Figure 1: Lethabo Unit 1 PM Emissions - January 2025**



| Reasons: |                                                       |
|----------|-------------------------------------------------------|
| Date     | Description:                                          |
| 01-Jan   | SO3 plant sulphur flow lost.Manual rapping done.      |
| 08-Jan   | High hopper levels.SO3 tripped.                       |
| 13-Jan   | Unit 1 tripped manually.                              |
| 16-Jan   | Unit 1 boiler off due to condenser tube leak repairs. |
| 25-Jan   | RHO ESP Casing outage.                                |
| 26-Jan   | RHO ESP Casing outage.                                |

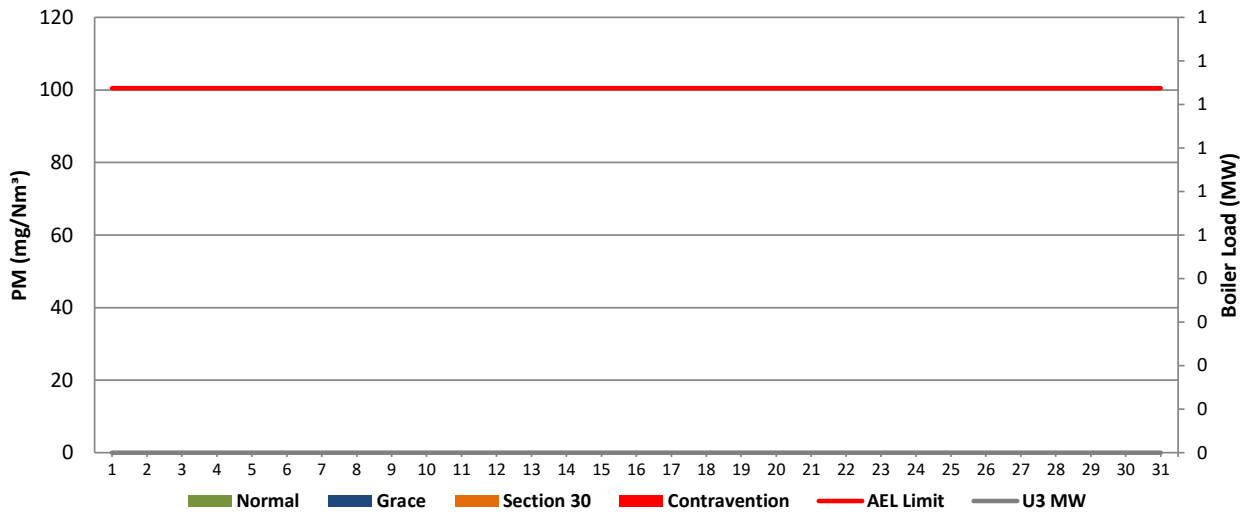
**Figure 2: Lethabo Unit 2 PM Emissions - January 2025**



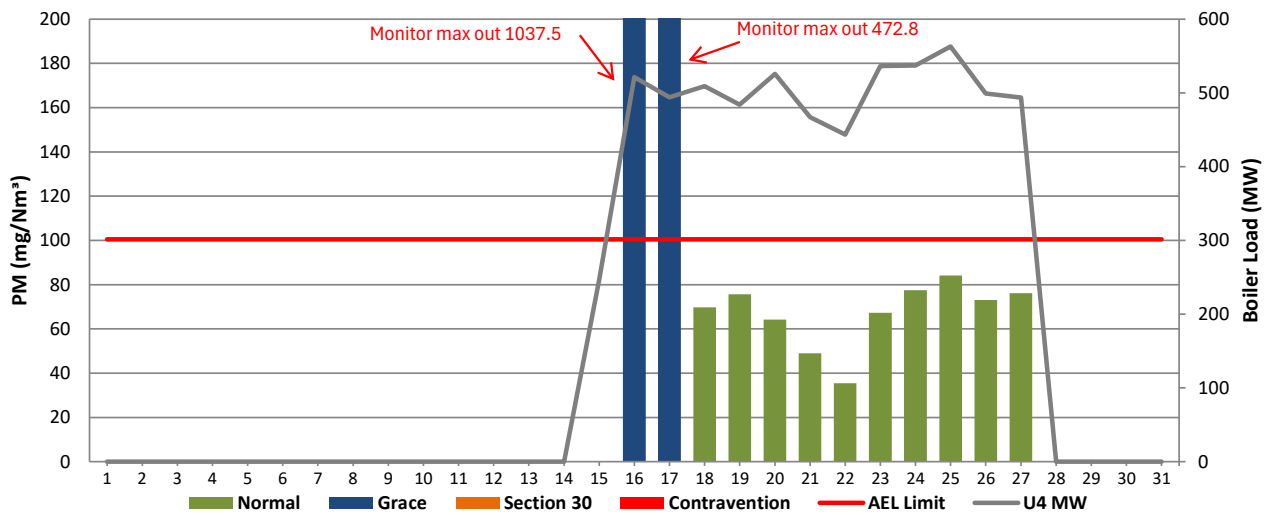
| Reasons: |                                                                |
|----------|----------------------------------------------------------------|
| Date     | Description:                                                   |
| 01-Jan   | SO3 plant sulphur flow issues.RHI ESP casing faulty            |
| 02-Jan   | SO3 plant sulphur flow issues.Manual rapping done.             |
| 07-Jan   | RHI ESP Casing poor performance (CE Rapper continuous rapping) |
| 18-Jan   | Poor ESP fields performance.                                   |
| 19-Jan   | Poor ESP fields performance.Manual rapping done.               |
| 21-Jan   | Poor ESP fields performance.                                   |
| 23-Jan   | RHI ESP casing outage.                                         |



Figure 3: Lethabo Unit 3 PM Emissions - January 2025

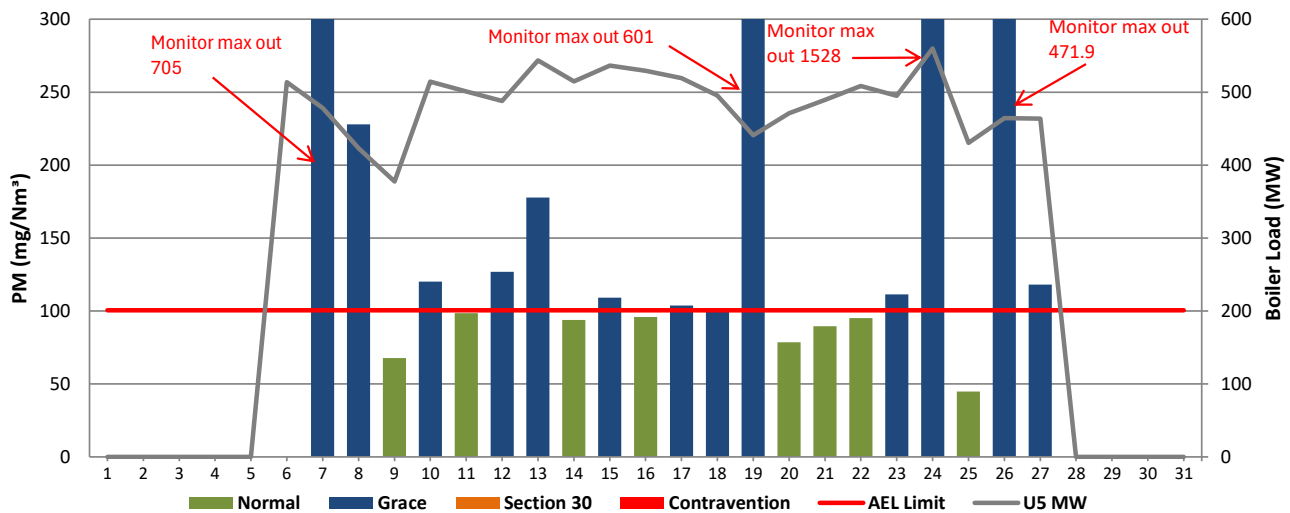


**Figure 4: Lethabo Unit 4 PM Emissions - January 2025**



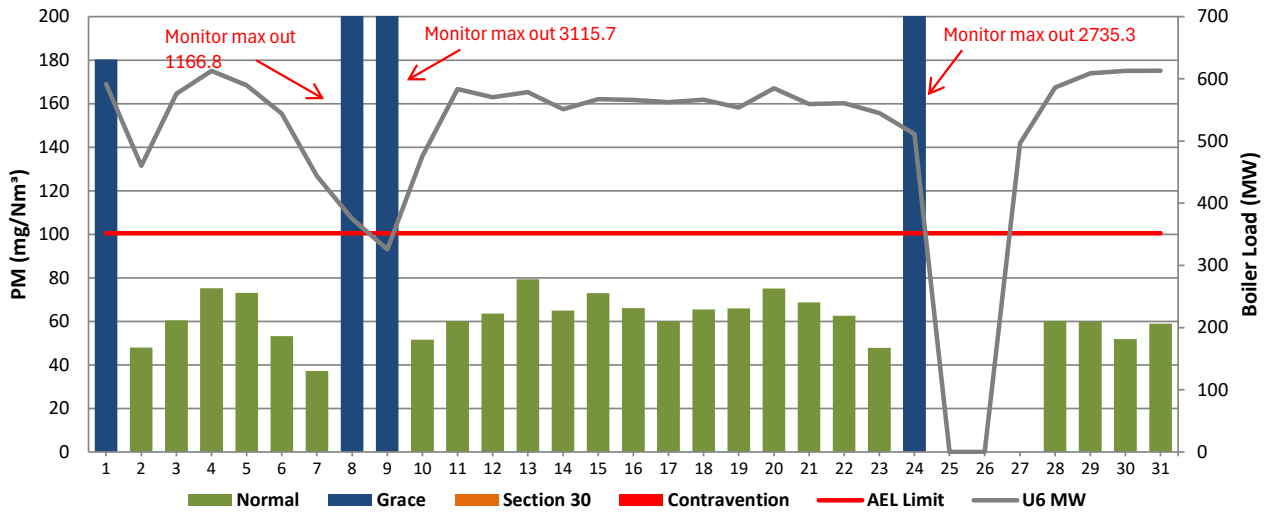
| Reasons: |                                                                                                                                                                 |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Date     | Description:                                                                                                                                                    |
| 16-Jan   | The unit synchronised on 2025/01/15 @ 15:15, therefore the emissions need to be below the limit 2025/01/18 @ 15:15 and remain below the limit until 2025/01/19. |
| 17-Jan   | The unit synchronised on 2025/01/15 @ 15:15, therefore the emissions need to be below the limit 2025/01/18 @ 15:15 and remain below the limit until 2025/01/19. |

**Figure 5: Lethabo Unit 5 PM Emissions - January 2025**



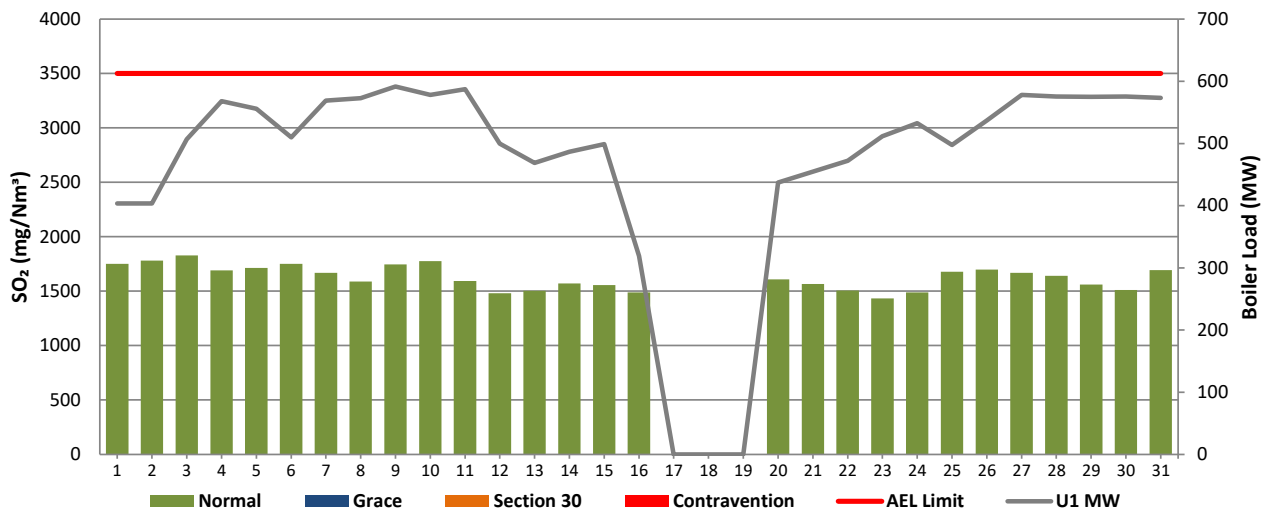
| Reasons: |                                                      |
|----------|------------------------------------------------------|
| Date     | Description:                                         |
| 07-Jan   | Unit light up condition                              |
| 08-Jan   | Unit light up condition                              |
| 10-Jan   | ESP Casing poor performance.<br>Manual rapping done. |
| 12-Jan   | ESP Casing poor performance.                         |
| 13-Jan   | ESP Casing poor performance.<br>Manual rapping done. |
| 15-Jan   | ESP Casing poor performance.                         |
| 17-Jan   | Poor ESP casing performance.<br>SO3 plant tripped.   |
| 18-Jan   | Poor ESP casing performance.                         |
| 19-Jan   | LHI ESP casing outage.<br>Manual rapping done.       |
| 23-Jan   | Poor ESP casing performance.                         |
| 24-Jan   | Poor ESP casing performance.<br>Manual rapping done. |
| 26-Jan   | RHO ESP casing outage.                               |
| 27-Jan   | Unit 5 off for BTL repairs.                          |

**Figure 6: Lethabo Unit 6 PM Emissions - January 2025**

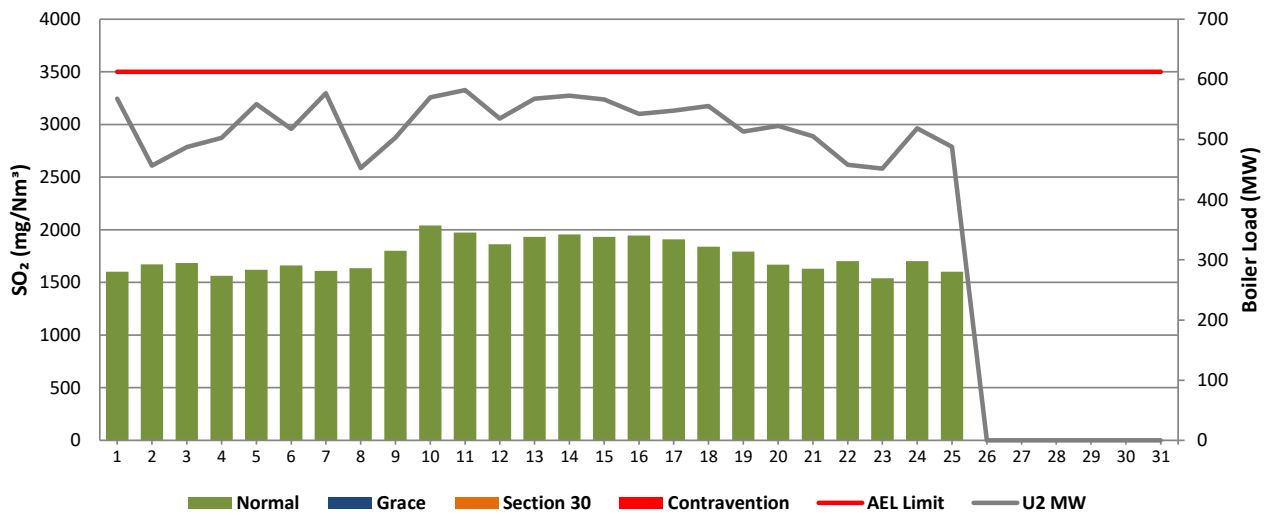


| Reasons: |                                                                          |
|----------|--------------------------------------------------------------------------|
| Date     | Description:                                                             |
| 01-Jan   | No sulphur flow.<br>Poor ESP casing performance.<br>Manual rapping done. |
| 08-Jan   | Sulphur flow dropped to zero due to low load attributed to coal issues.  |
| 09-Jan   | Black furnace trip.                                                      |
| 24-Jan   | Unit 6 off for MSSV repairs.                                             |

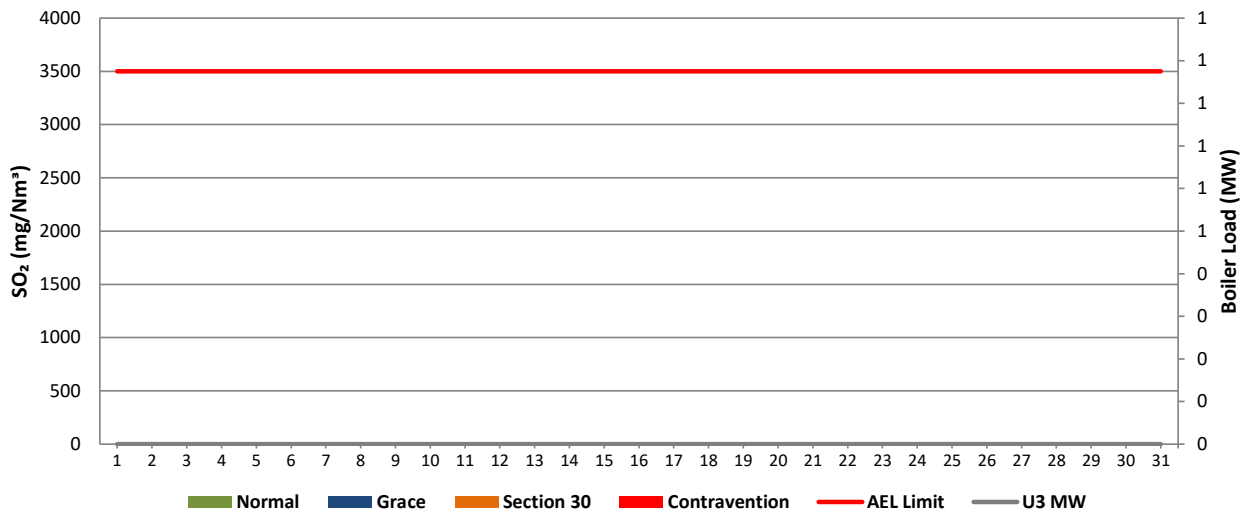
**Figure 7: Lethabo Unit 1 SO<sub>2</sub> Emissions - January 2025**



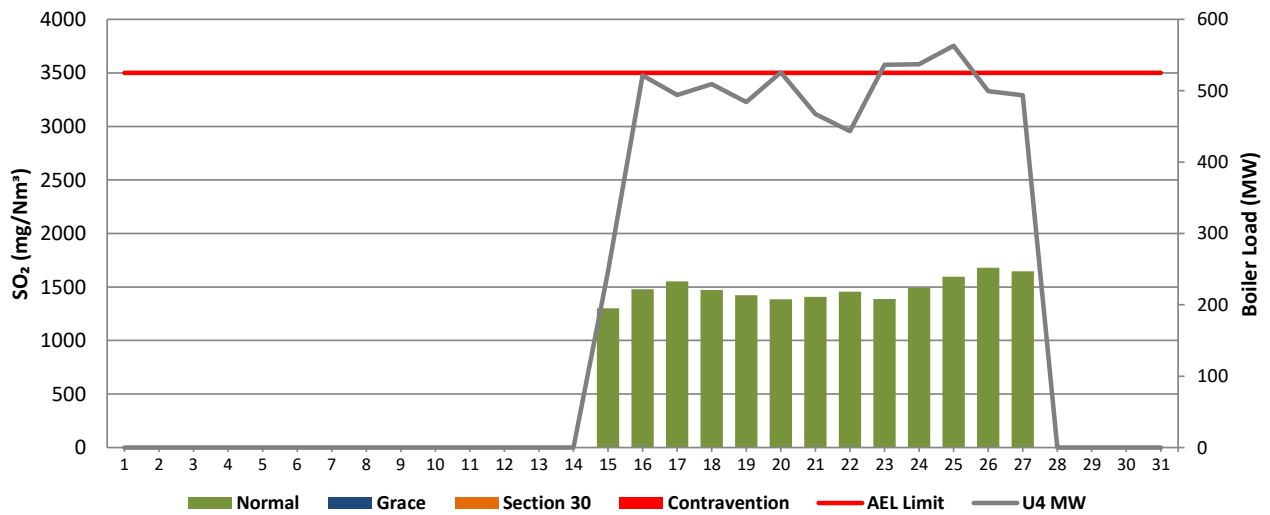
**Figure 8: Lethabo Unit 2 SO<sub>2</sub> Emissions - January 2025**



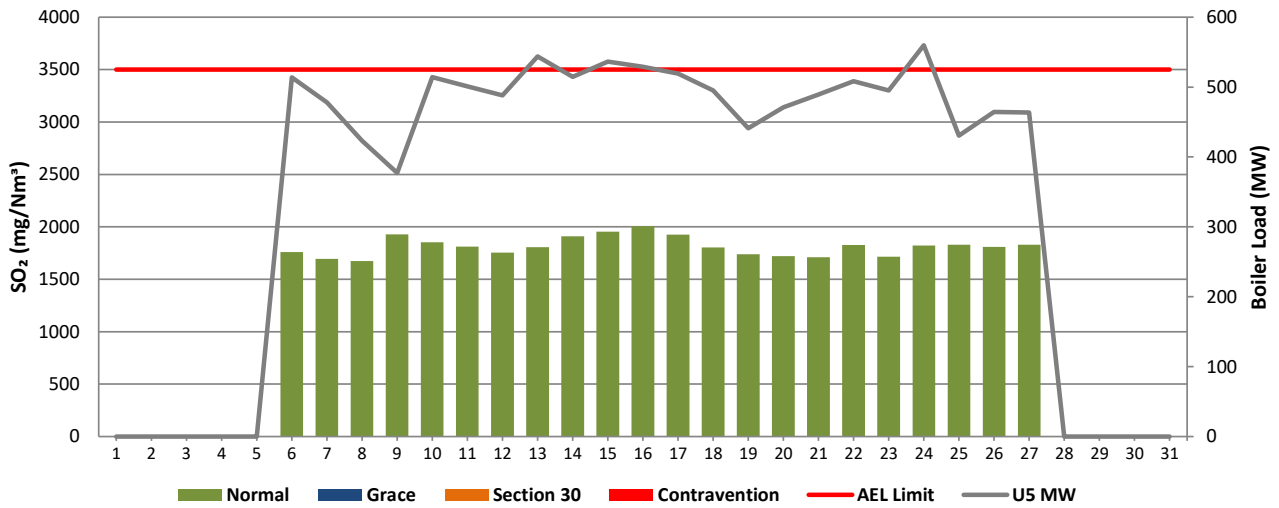
**Figure 9: Lethabo Unit 3 SO<sub>2</sub> Emissions - January 2025**



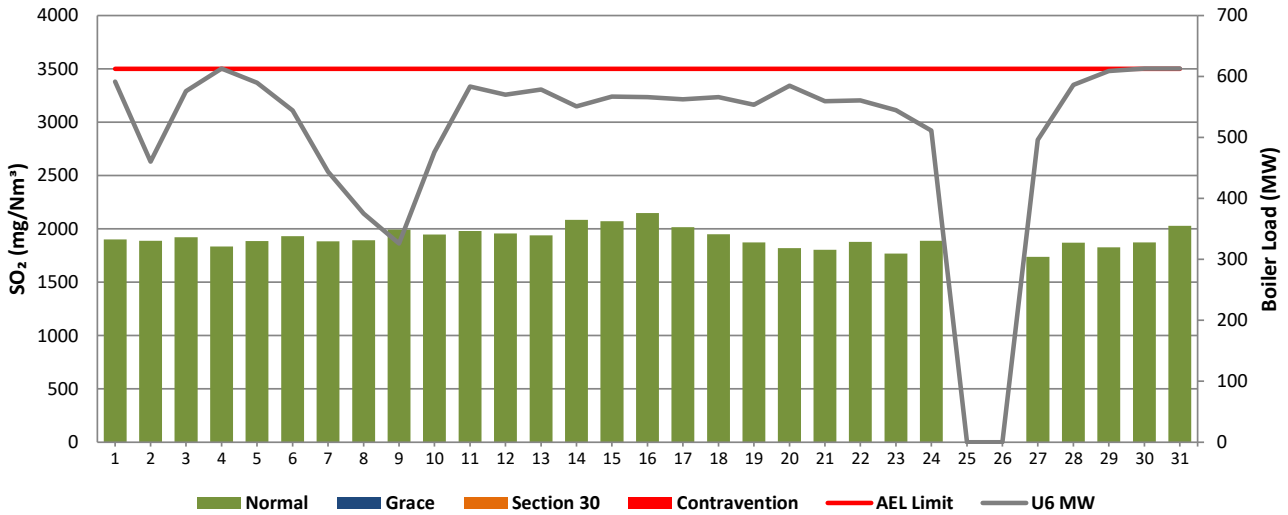
**Figure 10: Lethabo Unit 4 SO<sub>2</sub> Emissions - January 2025**



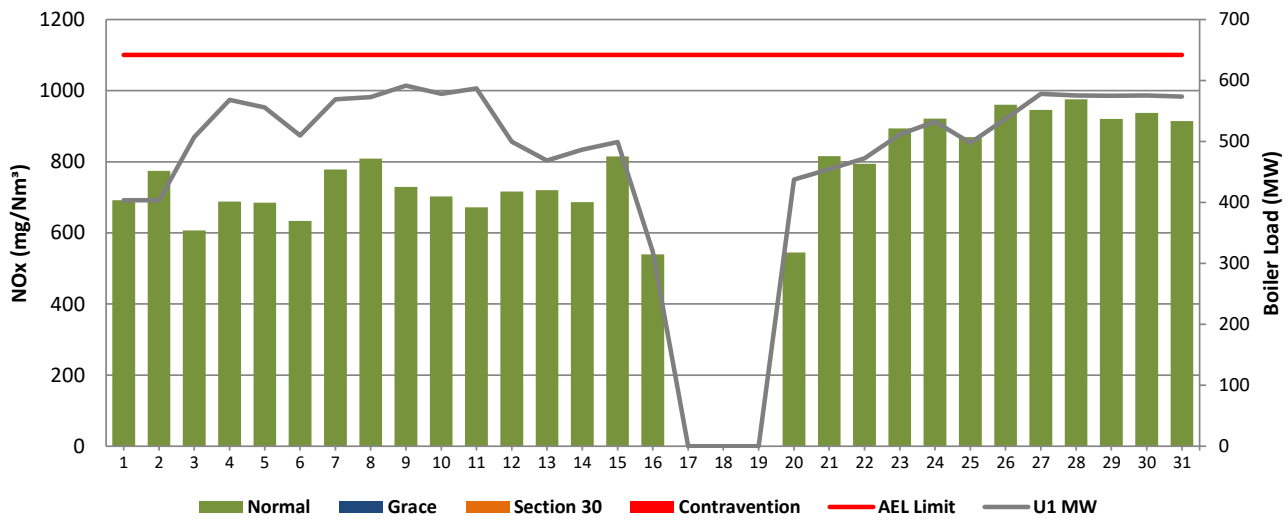
**Figure 11: Lethabo Unit 5 SO<sub>2</sub> Emissions - January 2025**



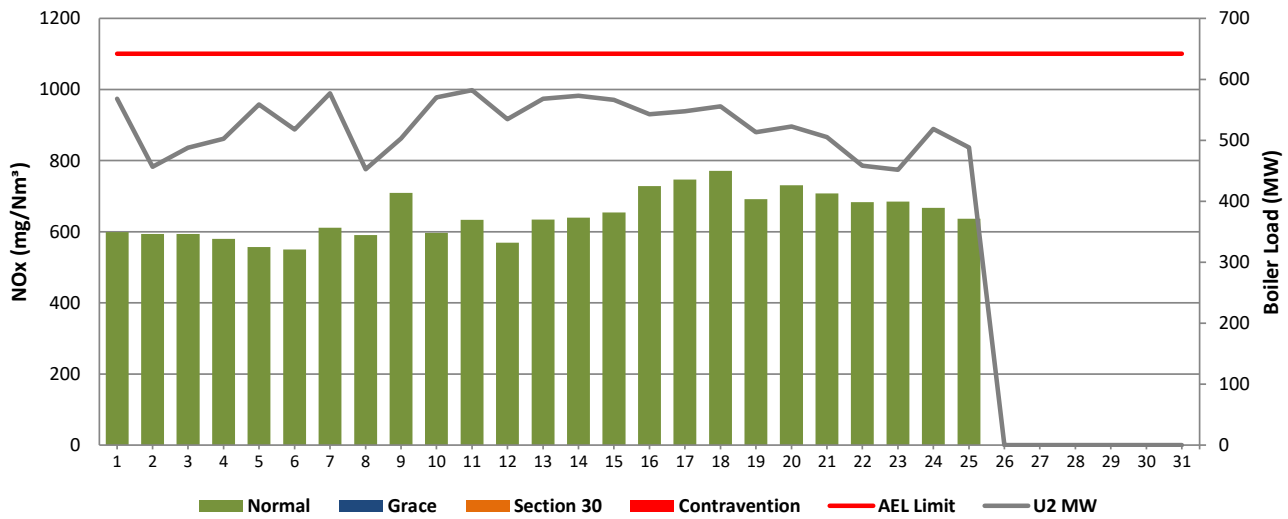
**Figure 12: Lethabo Unit 6 SO<sub>2</sub> Emissions - January 2025**



**Figure 13: Lethabo Unit 1 NOx Emissions - January 2025**

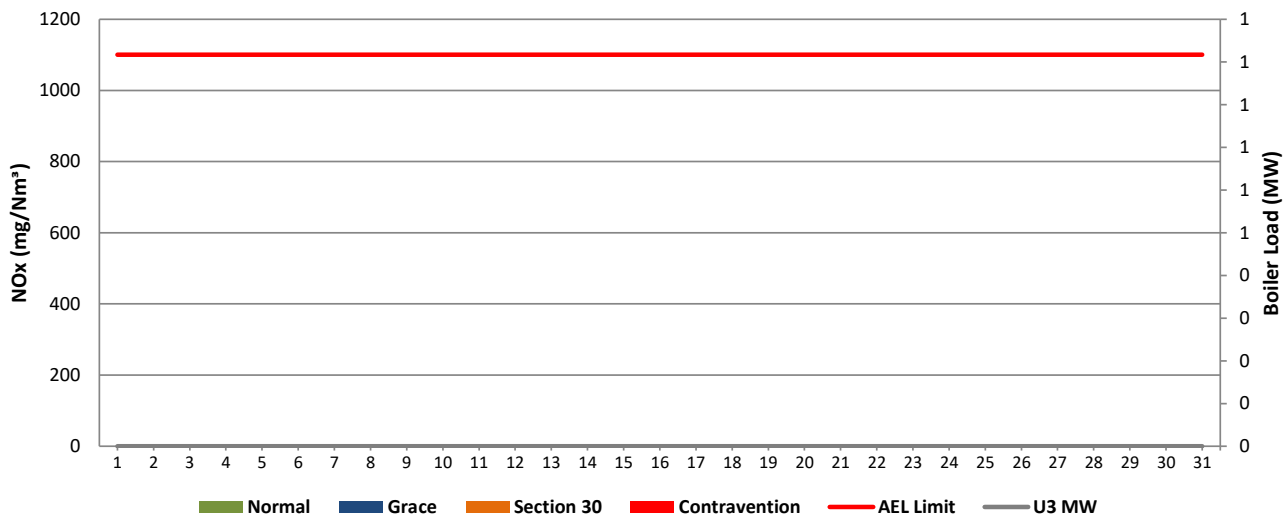


**Figure 14: Lethabo Unit 2 NOx Emissions - January 2025**





**Figure 15: Lethabo Unit 3 NOx Emissions - January 2025**



**Figure 16: Lethabo Unit 4 NOx Emissions - January 2025**

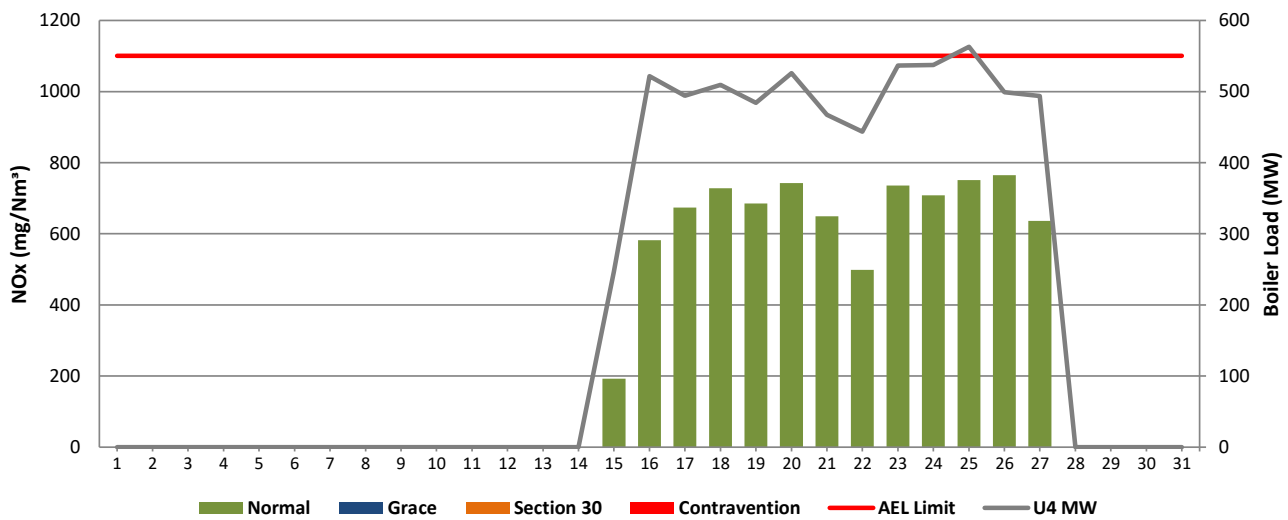


Figure 17: Lethabo Unit 5 NOx Emissions - January 2025

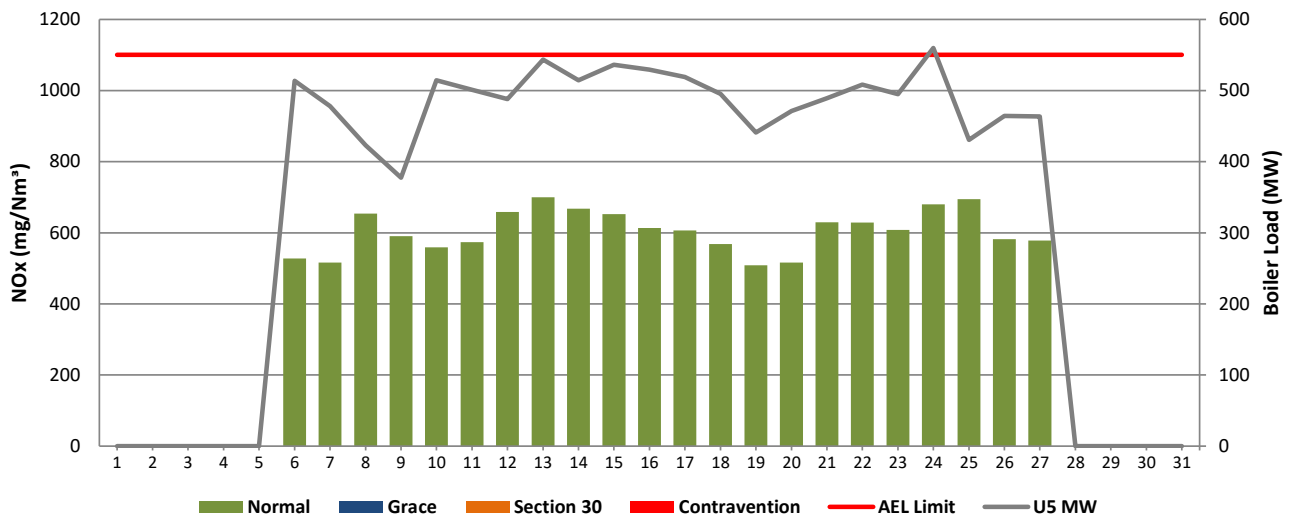
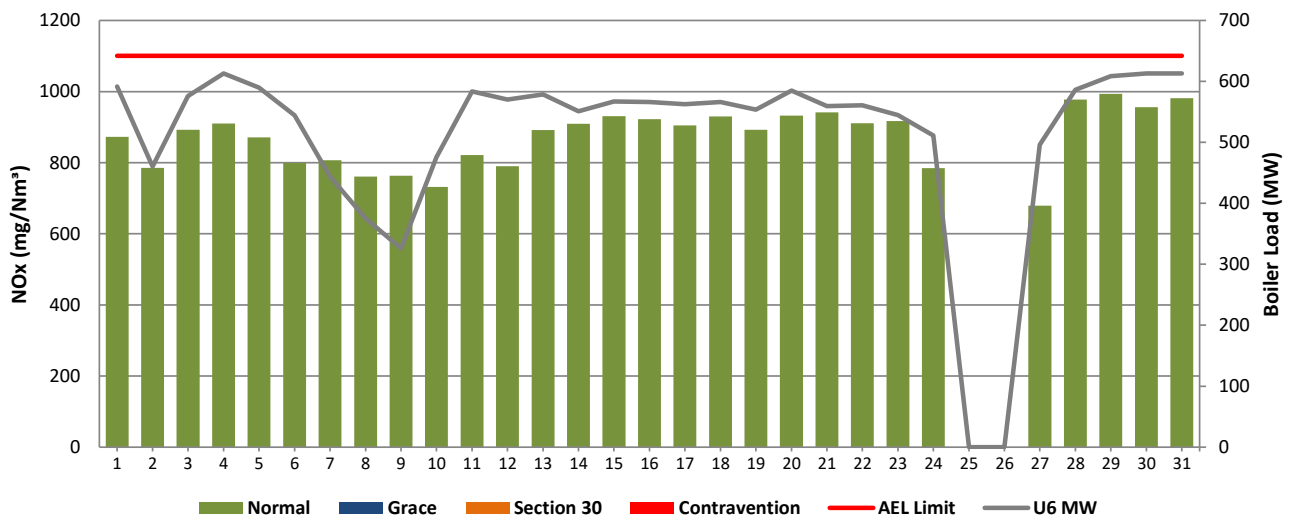


Figure 18: Lethabo Unit 6 NOx Emissions - January 2025



## 7 SHUT DOWN AND LIGHT UP INFORMATION

Table 7.1: PM Start-up information for the month of January 2025

| Unit No.1                                | Unit tripped on low drum level + HP exhaust steam high unit tripped below 40% MCR |                       | Unit tripped below 40% MCR due to IP Turbine steam admission failure. |                       | condenser vacuum deteriorated |                       | Unit tripped on reverse power below block load |            |
|------------------------------------------|-----------------------------------------------------------------------------------|-----------------------|-----------------------------------------------------------------------|-----------------------|-------------------------------|-----------------------|------------------------------------------------|------------|
| Breaker Open (BO)                        | 3:48 pm                                                                           | 2025/01/03            | 5:37 am                                                               | 2025/01/13            | 1:05 pm                       | 2025/01/16            | 11:24 pm                                       | 2025/01/16 |
| Draught Group (DG) Shut Down (SD)        | DG did not trip or SD                                                             | DG did not trip or SD | DG did not trip or SD                                                 | DG did not trip or SD | DG did not trip or SD         | DG did not trip or SD | 10:16 am                                       | 2025/01/17 |
| BO to DG SD (duration)                   | n/a                                                                               | DD:HH:MM              | n/a                                                                   | DD:HH:MM              | n/a                           | DD:HH:MM              | 00:10:52                                       | DD:HH:MM   |
| Fires in time                            | 5:34 pm                                                                           | 2025/01/03            | 12:58 pm                                                              | 2025/01/13            | 8:06 pm                       | 2025/01/16            | 9:36 pm                                        | 2025/01/17 |
| Synch. to Grid (or BC)                   | 8:08 pm                                                                           | 2025/01/03            | 2:34 pm                                                               | 2025/01/13            | 9:53 pm                       | 2025/01/16            | 3:19 am                                        | 2025/01/18 |
| Fires in to BC (duration)                | 00:02:34                                                                          | DD:HH:MM              | 00:01:36                                                              | DD:HH:MM              | 00:01:47                      | DD:HH:MM              | 00:05:43                                       | DD:HH:MM   |
| Emissions below limit from BC (end date) | not > limit                                                                       | not > limit           | 12:00 am                                                              | 2025/01/14            | 12:00 am                      | 2025/01/19            | 12:00 am                                       | 2025/01/19 |
| Emissions below limit from BC (duration) | n/a                                                                               | DD:HH:MM              | 00:09:26                                                              | DD:HH:MM              | 02:02:07                      | DD:HH:MM              | 00:20:41                                       | DD:HH:MM   |

| Unit No.2                                | Boiler tube leak. |            |  |  |  |  |  |  |
|------------------------------------------|-------------------|------------|--|--|--|--|--|--|
| Breaker Open (BO)                        | 10:46 am          | 2025/01/25 |  |  |  |  |  |  |
| Draught Group (DG) Shut Down (SD)        | 11:13 pm          | 2025/01/25 |  |  |  |  |  |  |
| BO to DG SD (duration)                   | 00:12:27          | DD:HH:MM   |  |  |  |  |  |  |
| Fires in time                            |                   |            |  |  |  |  |  |  |
| Synch. to Grid (or BC)                   |                   |            |  |  |  |  |  |  |
| Fires in to BC (duration)                |                   | DD:HH:MM   |  |  |  |  |  |  |
| Emissions below limit from BC (end date) |                   |            |  |  |  |  |  |  |
| Emissions below limit from BC (duration) |                   | DD:HH:MM   |  |  |  |  |  |  |

|                                          |  |  |  |  |  |  |  |  |
|------------------------------------------|--|--|--|--|--|--|--|--|
| Unit No.3                                |  |  |  |  |  |  |  |  |
| Breaker Open (BO)                        |  |  |  |  |  |  |  |  |
| Draught Group (DG) Shut Down (SD)        |  |  |  |  |  |  |  |  |
| BO to DG SD (duration)                   |  |  |  |  |  |  |  |  |
| Fires in time                            |  |  |  |  |  |  |  |  |
| Synch. to Grid (or BC)                   |  |  |  |  |  |  |  |  |
| Fires in to BC (duration)                |  |  |  |  |  |  |  |  |
| Emissions below limit from BC (end date) |  |  |  |  |  |  |  |  |
| Emissions below limit from BC (duration) |  |  |  |  |  |  |  |  |

|                                          |                                                                                                  |                       |                          |                       |                          |            |  |  |
|------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------|--------------------------|-----------------------|--------------------------|------------|--|--|
| Unit No.4                                | <i>LP turbine blades inspection + System Generated Slip Event linked to PCLF Event : 2012065</i> |                       | <i>Boiler drum level</i> |                       | <i>Boiler tube leak.</i> |            |  |  |
| Breaker Open (BO)                        | 12:00 pm                                                                                         | 2025/01/14            | 1:11 am                  | 2025/01/26            | 10:34 am                 | 2025/01/27 |  |  |
| Draught Group (DG) Shut Down (SD)        | DG did not trip or SD                                                                            | DG did not trip or SD | DG did not trip or SD    | DG did not trip or SD | 11:45 pm                 | 2025/01/27 |  |  |
| BO to DG SD (duration)                   | n/a                                                                                              | DD:HH:MM              | n/a                      | DD:HH:MM              | 00:13:11                 | DD:HH:MM   |  |  |
| Fires in time                            | 1:21 pm                                                                                          | 2025/01/15            | 3:21 am                  | 2025/01/26            |                          |            |  |  |
| Synch. to Grid (or BC)                   | 3:14 pm                                                                                          | 2025/01/15            | 4:36 am                  | 2025/01/26            |                          |            |  |  |
| Fires in to BC (duration)                | 00:01:53                                                                                         | DD:HH:MM              | 00:01:15                 | DD:HH:MM              |                          | DD:HH:MM   |  |  |
| Emissions below limit from BC (end date) | 6:00 am                                                                                          | 2025/01/19            | 2:00 am                  | 2025/01/28            |                          |            |  |  |
| Emissions below limit from BC (duration) | 03:14:46                                                                                         | DD:HH:MM              | 01:21:24                 | DD:HH:MM              |                          | DD:HH:MM   |  |  |

|                                          |                          |            |                   |            |  |  |  |  |
|------------------------------------------|--------------------------|------------|-------------------|------------|--|--|--|--|
| Unit No.5                                | Boiler tube leak repairs |            | Boiler tube leak. |            |  |  |  |  |
| Breaker Open (BO)                        |                          |            | 5:23 pm           | 2025/01/27 |  |  |  |  |
| Draught Group (DG) Shut Down (SD)        |                          |            | 8:40 am           | 2025/01/28 |  |  |  |  |
| BO to DG SD (duration)                   |                          | DD:HH:MM   | 00:15:17          | DD:HH:MM   |  |  |  |  |
| Fires in time                            | 5:28 am                  | 2025/01/06 |                   |            |  |  |  |  |
| Synch. to Grid (or BC)                   | 7:53 am                  | 2025/01/06 |                   |            |  |  |  |  |
| Fires in to BC (duration)                | 00:02:25                 | DD:HH:MM   |                   | DD:HH:MM   |  |  |  |  |
| Emissions below limit from BC (end date) | 4:00 am                  | 2025/01/10 |                   |            |  |  |  |  |
| Emissions below limit from BC (duration) | 03:20:07                 | DD:HH:MM   |                   | DD:HH:MM   |  |  |  |  |

|                                          |                                              |                       |  |  |  |  |  |  |
|------------------------------------------|----------------------------------------------|-----------------------|--|--|--|--|--|--|
| Unit No.6                                | Unit tripped below 40% MCR on Black furnace. |                       |  |  |  |  |  |  |
| Breaker Open (BO)                        | 5:14 am                                      | 2025/01/09            |  |  |  |  |  |  |
| Draught Group (DG) Shut Down (SD)        | DG did not trip or SD                        | DG did not trip or SD |  |  |  |  |  |  |
| BO to DG SD (duration)                   | n/a                                          | DD:HH:MM              |  |  |  |  |  |  |
| Fires in time                            | 3:31 pm                                      | 2025/01/09            |  |  |  |  |  |  |
| Synch. to Grid (or BC)                   | 5:11 pm                                      | 2025/01/09            |  |  |  |  |  |  |
| Fires in to BC (duration)                | 00:01:40                                     | DD:HH:MM              |  |  |  |  |  |  |
| Emissions below limit from BC (end date) | 2:00 am                                      | 2025/01/11            |  |  |  |  |  |  |
| Emissions below limit from BC (duration) | 01:08:49                                     | DD:HH:MM              |  |  |  |  |  |  |

7.2: Point Source emissions released during start-up (fires-in) and Shut-down (SD) for the month of January 2025 in mg/Nm<sup>3</sup>

## 8. MAINTENANCE

|                                 |                           |                             |  |  |
|---------------------------------|---------------------------|-----------------------------|--|--|
| <b>Unit 1</b>                   |                           |                             |  |  |
| <b>Beginning of Maintenance</b> | 2025/01/25 00:23          | 2025/01/26 00:00            |  |  |
| <b>Reason for Maintenance</b>   | RHO Pricip casing repairs | RHO pricip casing Still air |  |  |
| <b>End (Time):</b>              | 2025/01/26 00:00          | 2025/01/26 06:27            |  |  |
| <b>Duration</b>                 | 23:37:00                  | 6:27:00                     |  |  |

|                                 |  |  |  |  |
|---------------------------------|--|--|--|--|
| <b>Unit 2</b>                   |  |  |  |  |
| <b>Beginning of Maintenance</b> |  |  |  |  |
| <b>Reason for Maintenance</b>   |  |  |  |  |
| <b>End (Time):</b>              |  |  |  |  |
| <b>Duration</b>                 |  |  |  |  |

|                                 |         |  |  |  |
|---------------------------------|---------|--|--|--|
| <b>Unit 3</b>                   |         |  |  |  |
| <b>Beginning of Maintenance</b> |         |  |  |  |
| <b>Reason for Maintenance</b>   |         |  |  |  |
| <b>End (Time):</b>              |         |  |  |  |
| <b>Duration</b>                 | 0:00:00 |  |  |  |

|                                 |  |  |  |  |
|---------------------------------|--|--|--|--|
| <b>Unit 4</b>                   |  |  |  |  |
| <b>Beginning of Maintenance</b> |  |  |  |  |
| <b>Reason for Maintenance</b>   |  |  |  |  |
| <b>End (Time):</b>              |  |  |  |  |
| <b>Duration</b>                 |  |  |  |  |

|                                 |                                 |                                 |                            |  |
|---------------------------------|---------------------------------|---------------------------------|----------------------------|--|
| <b>Unit 5</b>                   |                                 |                                 |                            |  |
| <b>Beginning of Maintenance</b> | 2025/01/19 00:00                | 2025/01/19 04:44                | 2025/01/26 00:00           |  |
| <b>Reason for Maintenance</b>   | LH inner precip casing repairs. | LH inner precip casing repairs. | RHO pricip casing repairs. |  |
| <b>End (Time):</b>              | 2025/01/19 04:44                | 2025/01/19 23:31                | 2025/01/27 00:00           |  |
| <b>Duration</b>                 | 4:44:00                         | 18:47:00                        | 24:00:00                   |  |

|                                 |  |  |  |  |
|---------------------------------|--|--|--|--|
| <b>Unit 6</b>                   |  |  |  |  |
| <b>Beginning of Maintenance</b> |  |  |  |  |
| <b>Reason for Maintenance</b>   |  |  |  |  |
| <b>End (Time):</b>              |  |  |  |  |
| <b>Duration</b>                 |  |  |  |  |

## 9. GENERAL

### Unit 1 Monitor Reliability

02/01/2025: PM monitor Reliability low due to monitor max out.

16/01/2025: PM monitor Reliability low due to monitor max out.

### Unit 4 Monitor Reliability

16/01/2025: PM monitor Reliability low due to monitor max out.

17/01/2025: PM monitor Reliability low due to monitor max out.

### Unit 5 Monitor Reliability

10/01/2025: PM monitor Reliability low due to monitor max out.

13/01/2025: PM monitor Reliability low due to monitor max out.

### Unit 4 Gaseous Monitor Reliability

15 - 16/01/2025: Gas Monitor Reliability low (Start up conditions)

### Unit 1:

On 29 December 2024 - 01 January 2025, unit 1 registered a non-compliance as the unit exceeded for greater than 72 hrs due to unavailability of SO<sub>3</sub> plant sulphur flow which then resulted in failure to remain below the limit after 72 hrs grace period. Investigation on the loss of sulphur flow identified and concluded on steam leak on the SO<sub>3</sub> skid as the root cause. The noncompliance was reported to the licensing authority on 02/01/2025

| PM Exceedances |                                                                                                                                                                                                                 |        |
|----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|
| U1.            | SO3 plant sulphur flow lost.Manual rapping done.                                                                                                                                                                | 01-Jan |
| U1.            | High hopper levels.SO3 tripped.                                                                                                                                                                                 | 08-Jan |
| U1.            | Unit 1 tripped manually.                                                                                                                                                                                        | 13-Jan |
| U1.            | Unit 1 boiler off due to condenser tube leak repairs.                                                                                                                                                           | 16-Jan |
| U1.            | RHO ESP Casing outage.                                                                                                                                                                                          | 25-Jan |
| U1.            | RHO ESP Casing outage.                                                                                                                                                                                          | 26-Jan |
| U2.            | SO3 plant sulphur flow issues.RHI ESP casing faulty                                                                                                                                                             | 01-Jan |
| U2.            | SO3 plant sulphur flow issues.Manual rapping done.                                                                                                                                                              | 02-Jan |
| U2.            | RHI ESP Casing poor performance (CE Rapper continuous rapping)                                                                                                                                                  | 07-Jan |
| U2.            | Poor ESP fields performance.                                                                                                                                                                                    | 18-Jan |
| U2.            | Poor ESP fields performance.Manual rapping done.                                                                                                                                                                | 19-Jan |
| U2.            | Poor ESP fields performance.                                                                                                                                                                                    | 21-Jan |
| U2.            | RHI ESP casing outage.                                                                                                                                                                                          | 23-Jan |
| U4.            | 15:15 and remain below the limit until 2025/01/19.<br>RHO ESP casing off due to electrical issues.                                                                                                              | 16-Jan |
| U4.            | The unit synchronised on 2025/01/15 @ 15:15, therefore the emissions need to be below the limit 2025/01/18 @ 15:15 and remain below the limit until 2025/01/19.<br>RHO ESP casing off due to electrical issues. | 17-Jan |
| U5.            | Unit light up condition                                                                                                                                                                                         | 07-Jan |
| U5.            | Unit light up condition                                                                                                                                                                                         | 08-Jan |
| U5.            | ESP Casing poor performance.Manual rapping done.                                                                                                                                                                | 10-Jan |
| U5.            | ESP Casing poor performance.                                                                                                                                                                                    | 12-Jan |
| U5.            | ESP Casing poor performance.Manual rapping done.                                                                                                                                                                | 13-Jan |
| U5.            | ESP Casing poor performance.                                                                                                                                                                                    | 15-Jan |
| U5.            | Poor ESP casing performance.SO3 plant tripped.                                                                                                                                                                  | 17-Jan |
| U5.            | Poor ESP casing performance.                                                                                                                                                                                    | 18-Jan |
| U5.            | LHI ESP casing outage.Manual rapping done.                                                                                                                                                                      | 19-Jan |
| U5.            | Poor ESP casing performance.                                                                                                                                                                                    | 23-Jan |
| U5.            | Poor ESP casing performance.Manual rapping done.                                                                                                                                                                | 24-Jan |
| U5.            | RHO ESP casing outage.                                                                                                                                                                                          | 26-Jan |
| U5.            | Unit 5 off for BTL repairs.                                                                                                                                                                                     | 27-Jan |
| U6.            | No sulphur flow.Poor ESP casing performance.Manual rapping done.                                                                                                                                                | 01-Jan |
| U6.            | Sulphur flow dropped to zero due to low load attributed to coal issues.                                                                                                                                         | 08-Jan |
| U6.            | Black furnace trip.                                                                                                                                                                                             | 09-Jan |
| U6.            | Unit 6 off for MSSV repairs.                                                                                                                                                                                    | 24-Jan |



ADDENDUM TO MONTHLY EMISSIONS REPORT

10. S30 INCIDENT OR LEGAL CONTRAVENTION REGISTER

To be completed in the case of a S30 incident or a legal contravention:

| Unit no | Incident Start Date | Incident End Date | Incident Cause             | Remedial action                     | S30 initial notification sent | Date S30 investigation report sent | Date DEA Acknowledg-ment | Date DEA Acceptable | Comments / Reference No. |
|---------|---------------------|-------------------|----------------------------|-------------------------------------|-------------------------------|------------------------------------|--------------------------|---------------------|--------------------------|
| 1       | 29/12/2024          | 01/01/2025        | Steam leak on the SO3 skid | Repairs on the SO3 Skid steam line. |                               |                                    |                          |                     | #####                    |
|         |                     |                   |                            |                                     |                               |                                    |                          |                     |                          |

11. PARTICULATE EMISSIONS

EMISSION RATE (ACTUAL EMISSION/MWh GENERATED - kg/MWh)

| MONTH  | UNIT 1 | UNIT 2 | UNIT 3 | UNIT 4 | UNIT 5 | UNIT 6 | STATION |
|--------|--------|--------|--------|--------|--------|--------|---------|
| Feb-24 | 0.55   | 0.81   | 0.89   | 0.63   | 0.48   | OFF    | 0.68    |
| Mar-24 | 0.86   | 0.58   | 0.97   | 0.69   | 0.84   | OFF    | 0.79    |
| Apr-24 | 0.27   | 0.66   | 0.55   | 0.69   | 0.68   | OFF    | 0.58    |
| May-24 | 0.25   | 0.91   | 0.56   | 1.10   | 0.81   | OFF    | 0.75    |
| Jun-24 | 0.30   | 1.03   | 0.45   | 0.68   | 0.54   | OFF    | 0.60    |
| Jul-24 | 0.43   | 2.04   | 0.55   | 0.75   | 0.68   | 1.28   | 0.87    |
| Aug-24 | 0.48   | 0.91   | 0.69   | 0.47   | 0.53   | 0.18   | 0.54    |
| Sep-24 | 0.61   | 0.70   | 0.69   | 0.67   | 0.76   | 0.24   | 0.60    |
| Oct-24 | 0.34   | 0.62   | OFF    | 0.61   | 0.78   | 0.33   | 0.57    |
| Nov-24 | 0.42   | 0.50   | OFF    | 0.90   | 0.75   | 0.26   | 0.56    |
| Dec-24 | 0.56   | 0.57   | OFF    | 0.88   | 0.63   | 0.24   | 0.54    |
| Jan-25 | 1.08   | 0.51   | OFF    | 0.82   | 1.47   | 0.71   | 0.90    |

# ADDENDUM TO MONTHLY EMISSIONS REPORT

## 12. DAILY EMISSIONS FIGURES

**Final Dust Concentration (mg/Nm³)**

| Date   | U1   | U2  | U3  | U4   | U5   | U6   | Limit |
|--------|------|-----|-----|------|------|------|-------|
| 01-Jan | 229  | 178 | OFF | OFF  | OFF  | 180  | 100   |
| 02-Jan | 81   | 116 | OFF | OFF  | OFF  | 48   | 100   |
| 03-Jan | 59   | 48  | OFF | OFF  | OFF  | 61   | 100   |
| 04-Jan | 70   | 61  | OFF | OFF  | OFF  | 75   | 100   |
| 05-Jan | 87   | 91  | OFF | OFF  | OFF  | 73   | 100   |
| 06-Jan | 65   | 78  | OFF | OFF  | OFF  | 53   | 100   |
| 07-Jan | 70   | 126 | OFF | OFF  | 705  | 37   | 100   |
| 08-Jan | 106  | 55  | OFF | OFF  | 228  | 1167 | 100   |
| 09-Jan | 54   | 49  | OFF | OFF  | 68   | 3116 | 100   |
| 10-Jan | 47   | 64  | OFF | OFF  | 120  | 52   | 100   |
| 11-Jan | 43   | 71  | OFF | OFF  | 99   | 60   | 100   |
| 12-Jan | 34   | 62  | OFF | OFF  | 127  | 64   | 100   |
| 13-Jan | 101  | 68  | OFF | OFF  | 178  | 79   | 100   |
| 14-Jan | 25   | 72  | OFF | OFF  | 94   | 65   | 100   |
| 15-Jan | 30   | 92  | OFF | OFF  | 109  | 73   | 100   |
| 16-Jan | 8803 | 88  | OFF | 1038 | 96   | 66   | 100   |
| 17-Jan | OFF  | 88  | OFF | 473  | 104  | 60   | 100   |
| 18-Jan | OFF  | 118 | OFF | 70   | 102  | 65   | 100   |
| 19-Jan | OFF  | 120 | OFF | 76   | 602  | 66   | 100   |
| 20-Jan | OFF  | 91  | OFF | 64   | 79   | 75   | 100   |
| 21-Jan | 49   | 105 | OFF | 49   | 90   | 69   | 100   |
| 22-Jan | 45   | 78  | OFF | 35   | 95   | 63   | 100   |
| 23-Jan | 42   | 200 | OFF | 67   | 111  | 48   | 100   |
| 24-Jan | 78   | 93  | OFF | 77   | 1528 | 2735 | 100   |
| 25-Jan | 285  | 80  | OFF | 84   | 45   | OFF  | 100   |
| 26-Jan | 131  | OFF | OFF | 73   | 472  | OFF  | 100   |
| 27-Jan | 70   | OFF | OFF | 76   | 118  | OFF  | 100   |
| 28-Jan | 61   | OFF | OFF | OFF  | OFF  | 60   | 100   |
| 29-Jan | 74   | OFF | OFF | OFF  | OFF  | 60   | 100   |
| 30-Jan | 66   | OFF | OFF | OFF  | OFF  | 52   | 100   |
| 31-Jan | 64   | OFF | OFF | OFF  | OFF  | 59   | 100   |

# ADDENDUM TO MONTHLY EMISSIONS REPORT

## Final SOx Concentration (mg/Nm³)

| Date   | U1   | U2   | U3  | U4   | U5   | U6   | Limit |
|--------|------|------|-----|------|------|------|-------|
| 01-Jan | 1751 | 1603 | OFF | OFF  | OFF  | 1902 | 3500  |
| 02-Jan | 1780 | 1671 | OFF | OFF  | OFF  | 1888 | 3500  |
| 03-Jan | 1829 | 1684 | OFF | OFF  | OFF  | 1921 | 3500  |
| 04-Jan | 1690 | 1563 | OFF | OFF  | OFF  | 1834 | 3500  |
| 05-Jan | 1714 | 1620 | OFF | OFF  | OFF  | 1886 | 3500  |
| 06-Jan | 1750 | 1662 | OFF | OFF  | 1760 | 1931 | 3500  |
| 07-Jan | 1669 | 1610 | OFF | OFF  | 1694 | 1883 | 3500  |
| 08-Jan | 1588 | 1636 | OFF | OFF  | 1674 | 1892 | 3500  |
| 09-Jan | 1745 | 1801 | OFF | OFF  | 1928 | 1993 | 3500  |
| 10-Jan | 1777 | 2041 | OFF | OFF  | 1854 | 1946 | 3500  |
| 11-Jan | 1593 | 1974 | OFF | OFF  | 1812 | 1980 | 3500  |
| 12-Jan | 1481 | 1861 | OFF | OFF  | 1755 | 1957 | 3500  |
| 13-Jan | 1504 | 1932 | OFF | OFF  | 1805 | 1940 | 3500  |
| 14-Jan | 1572 | 1955 | OFF | OFF  | 1910 | 2084 | 3500  |
| 15-Jan | 1557 | 1932 | OFF | 1301 | 1955 | 2072 | 3500  |
| 16-Jan | 1488 | 1944 | OFF | 1480 | 2005 | 2149 | 3500  |
| 17-Jan | OFF  | 1908 | OFF | 1551 | 1926 | 2016 | 3500  |
| 18-Jan | OFF  | 1838 | OFF | 1471 | 1803 | 1951 | 3500  |
| 19-Jan | OFF  | 1792 | OFF | 1422 | 1738 | 1872 | 3500  |
| 20-Jan | 1608 | 1669 | OFF | 1386 | 1720 | 1820 | 3500  |
| 21-Jan | 1566 | 1630 | OFF | 1408 | 1711 | 1805 | 3500  |
| 22-Jan | 1507 | 1702 | OFF | 1457 | 1827 | 1879 | 3500  |
| 23-Jan | 1433 | 1539 | OFF | 1387 | 1715 | 1769 | 3500  |
| 24-Jan | 1488 | 1702 | OFF | 1493 | 1823 | 1888 | 3500  |
| 25-Jan | 1678 | 1602 | OFF | 1596 | 1830 | OFF  | 3500  |
| 26-Jan | 1699 | OFF  | OFF | 1679 | 1808 | OFF  | 3500  |
| 27-Jan | 1668 | OFF  | OFF | 1647 | 1829 | 1738 | 3500  |
| 28-Jan | 1640 | OFF  | OFF | OFF  | OFF  | 1870 | 3500  |
| 29-Jan | 1560 | OFF  | OFF | OFF  | OFF  | 1827 | 3500  |
| 30-Jan | 1511 | OFF  | OFF | OFF  | OFF  | 1874 | 3500  |
| 31-Jan | 1694 | OFF  | OFF | OFF  | OFF  | 2029 | 3500  |

# ADDENDUM TO MONTHLY EMISSIONS REPORT

## Final NOx Concentration (mg/Nm³)

| Date   | U1  | U2  | U3  | U4  | U5  | U6  | Limit |
|--------|-----|-----|-----|-----|-----|-----|-------|
| 01-Jan | 692 | 599 | OFF | OFF | OFF | 872 | 1100  |
| 02-Jan | 774 | 594 | OFF | OFF | OFF | 785 | 1100  |
| 03-Jan | 607 | 594 | OFF | OFF | OFF | 892 | 1100  |
| 04-Jan | 688 | 580 | OFF | OFF | OFF | 910 | 1100  |
| 05-Jan | 685 | 557 | OFF | OFF | OFF | 871 | 1100  |
| 06-Jan | 633 | 550 | OFF | OFF | 528 | 799 | 1100  |
| 07-Jan | 778 | 612 | OFF | OFF | 516 | 807 | 1100  |
| 08-Jan | 809 | 591 | OFF | OFF | 654 | 761 | 1100  |
| 09-Jan | 729 | 709 | OFF | OFF | 590 | 764 | 1100  |
| 10-Jan | 703 | 596 | OFF | OFF | 559 | 732 | 1100  |
| 11-Jan | 672 | 633 | OFF | OFF | 574 | 821 | 1100  |
| 12-Jan | 716 | 569 | OFF | OFF | 659 | 790 | 1100  |
| 13-Jan | 720 | 634 | OFF | OFF | 700 | 892 | 1100  |
| 14-Jan | 687 | 639 | OFF | OFF | 668 | 909 | 1100  |
| 15-Jan | 815 | 654 | OFF | 193 | 652 | 931 | 1100  |
| 16-Jan | 540 | 729 | OFF | 582 | 613 | 923 | 1100  |
| 17-Jan | OFF | 747 | OFF | 674 | 606 | 905 | 1100  |
| 18-Jan | OFF | 771 | OFF | 728 | 568 | 930 | 1100  |
| 19-Jan | OFF | 691 | OFF | 685 | 508 | 893 | 1100  |
| 20-Jan | 545 | 731 | OFF | 743 | 516 | 933 | 1100  |
| 21-Jan | 816 | 708 | OFF | 649 | 630 | 941 | 1100  |
| 22-Jan | 794 | 683 | OFF | 498 | 629 | 911 | 1100  |
| 23-Jan | 894 | 685 | OFF | 736 | 608 | 917 | 1100  |
| 24-Jan | 921 | 667 | OFF | 708 | 680 | 785 | 1100  |
| 25-Jan | 869 | 637 | OFF | 751 | 694 | OFF | 1100  |
| 26-Jan | 961 | OFF | OFF | 765 | 582 | OFF | 1100  |
| 27-Jan | 945 | OFF | OFF | 636 | 578 | 679 | 1100  |
| 28-Jan | 976 | OFF | OFF | OFF | OFF | 977 | 1100  |
| 29-Jan | 921 | OFF | OFF | OFF | OFF | 993 | 1100  |
| 30-Jan | 937 | OFF | OFF | OFF | OFF | 956 | 1100  |
| 31-Jan | 914 | OFF | OFF | OFF | OFF | 981 | 1100  |

ADDENDUM TO MONTHLY EMISSIONS REPORT

13. AVAILABILITY

ESP utilisation

| Availability |         |               |         |               |         |               |         |               |         |               |          |               |
|--------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|---------|---------------|----------|---------------|
| Month        | Unit 1  | Days Affected | Unit 2  | Days Affected | Unit 3  | Days Affected | Unit 4  | Days Affected | Unit 5  | Days Affected | Unit 6   | Days Affected |
| Feb-24       | 100.00% | 0.0           | 99.34%  | 0.8           | 98.42%  | 1.8           | 99.89%  | 0.1           | 100.00% | 0.0           | Off-line | Off-line      |
| Mar-24       | 100.00% | 0.0           | 99.19%  | 1.0           | 100.00% | 0.0           | 97.53%  | 3.1           | 99.19%  | 1.0           | 100.00%  | 0.00%         |
| Apr-24       | 100.00% | 0.0           | 100.00% | 0.0           | 100.00% | 0.0           | 99.89%  | 0.1           | 97.43%  | 3.1           | 100.00%  | 0.00%         |
| May-24       | 100.00% | 0.0           | 97.91%  | 2.6           | 100.00% | 0.0           | 97.67%  | 2.9           | 99.38%  | 0.8           | 100.00%  | 0.00%         |
| Jun-24       | 100.00% | 0.00          | 99.17%  | 1.00          | 98.09%  | 2.29          | 98.32%  | 2.01          | 100.00% | 0.00          | 100.00%  | 0.00          |
| Jul-24       | 100.00% | 0.0           | 100.00% | 0.0           | 100.00% | 0.0           | 100.00% | 0.0           | 100.00% | 0.0           | 100.00%  | 0.00%         |
| Aug-24       | 98.59%  | 1.8           | 100.00% | 0.0           | 99.21%  | 1.0           | 100.00% | 0.0           | 99.84%  | 0.2           | 100.00%  | 0.00%         |
| Sep-24       | 98.55%  | 1.74          | 99.84%  | 0.19          | 100.00% | 0.00          | 99.12%  | 1.06          | 99.16%  | 1.01          | 100.00%  | 0.00          |
| Oct-24       | 99.19%  | 1.0           | 100.00% | 0.0           | 100.00% | 0.0           | 100.00% | 0.0           | 97.67%  | 2.9           | 100.00%  | 0.00%         |
| Nov-24       | 0.00%   | 0.00          | 0.00%   | 0.00          | 0.00%   | 0.00          | 0.00%   | 0.00          | 0.00%   | 0.00          | 0.00%    | 0.00          |
| Dec-24       | 99.39%  | 0.76          | 99.24%  | 0.95          | 100.00% | 0.00          | 99.18%  | 1.01          | 99.96%  | 0.05          | 99.27%   | 0.91          |
| Jan-25       | 98.99%  | 1.3           | 100.00% | 0.0           | 100.00% | 0.0           | 100.00% | 0.0           | 98.40%  | 2.0           | 100.00%  | 0.0           |

SO<sub>3</sub> plant utilisation

| Availability |         |               |        |               |          |               |         |               |         |               |          |               |
|--------------|---------|---------------|--------|---------------|----------|---------------|---------|---------------|---------|---------------|----------|---------------|
| Month        | Unit 1  | Days Affected | Unit 2 | Days Affected | Unit 3   | Days Affected | Unit 4  | Days Affected | Unit 5  | Days Affected | Unit 6   | Days Affected |
| Feb-24       | 99.92%  | 0.0           | 87.56% | 3.6           | 98.85%   | 0.3           | 95.65%  | 1.3           | 88.10%  | 3.5           | Off-line | Off-line      |
| Mar-24       | 99.33%  | 0.21          | 93.76% | 1.94          | 84.86%   | 4.69          | 100.00% | 0.00          | 100.00% | 0.00          | Off-line | Off-line      |
| Apr-24       | 99.46%  | 0.2           | 93.92% | 1.8           | 99.58%   | 0.1           | 100.00% | 0.0           | 100.00% | 0.0           | Off-line | Off-line      |
| May-24       | 99.45%  | 0.2           | 99.87% | 0.0           | 96.37%   | 1.1           | 99.87%  | 0.0           | 100.00% | 0.0           | Off-line | Off-line      |
| Jun-24       | 97.08%  | 0.88          | 69.03% | 9.29          | 100.00%  | 0.00          | 99.34%  | 0.20          | 99.77%  | 0.07          | Off-line | Off-line      |
| Jul-24       | 98.30%  | 0.5           | 41.43% | 18.2          | 99.73%   | 0.1           | 99.58%  | 0.1           | 98.39%  | 0.5           | 53.66%   | 14.37         |
| Aug-24       | 99.46%  | 0.2           | 91.70% | 2.6           | 100.00%  | 0.0           | 97.98%  | 0.6           | 99.59%  | 0.1           | 96.68%   | 1.03          |
| Sep-24       | 100.00% | 0.0           | 89.45% | 3.2           | 99.33%   | 0.2           | 99.84%  | 0.0           | 99.58%  | 0.1           | 99.92%   | 0.02          |
| Oct-24       | 99.85%  | 0.0           | 95.65% | 1.3           | Off-line | Off-line      | 98.92%  | 0.3           | 93.82%  | 1.9           | 99.59%   | 0.13          |
| Nov-24       | 99.99%  | 0.0           | 96.60% | 1.0           | Off-line | Off-line      | 99.17%  | 0.3           | 97.46%  | 0.8           | 99.21%   | 0.24          |
| Dec-24       | 52.80%  | 14.6          | 27.08% | 22.6          | Off-line | Off-line      | 77.33%  | 7.0           | 66.67%  | 10.3          | 60.94%   | 12.11         |
| Jan-25       | 95.59%  | 1.4           | 93.50% | 2.0           | Off-line | Off-line      | 96.18%  | 1.2           | 90.28%  | 3.0           | 94.33%   | 1.8           |

ADDENDUM TO MONTHLY EMISSIONS REPORT

Particulate Emission Monitors

| Availability |         |        |         |        |        |        |
|--------------|---------|--------|---------|--------|--------|--------|
|              | Unit 1  | Unit 2 | Unit 3  | Unit 4 | Unit 5 | Unit 6 |
| Feb-24       | 96.67%  | 93.82% | 93.39%  | 96.10% | 98.81% | OFF    |
| Mar-24       | 94.09%  | 97.49% | 96.46%  | 97.18% | 95.83% | OFF    |
| Apr-24       | 99.68%  | 92.71% | 97.22%  | 94.03% | 98.06% | OFF    |
| May-24       | 98.93%  | 93.01% | 97.45%  | 91.88% | 95.47% | OFF    |
| Jun-24       | 98%     | 87%    | 97%     | 97%    | 99%    | OFF    |
| Jul-24       | 90.95%  | 73.05% | 97.04%  | 95.37% | 98.85% | 61.98% |
| Aug-24       | 95.70%  | 91.44% | 99.38%  | 99.60% | 98.95% | 99.58% |
| Sep-24       | 98.11%  | 94.42% | 100.00% | 98.42% | 96.20% | 99.64% |
| Oct-24       | 99.65%  | 94.32% | OFF     | 98.75% | 96.51% | 98.18% |
| Nov-24       | 99.43%  | 99.40% | OFF     | 99.31% | 94.41% | 98.54% |
| Dec-24       | 100.00% | 96.61% | OFF     | 98.22% | 96.26% | 99.60% |
| Jan-25       | 96.64%  | 98.67% | OFF     | 87.85% | 92.93% | 99.02% |

Gaseous Emission Monitors

| Availability |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |                 |
|--------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
|              | Unit 1          |                 | Unit 2          |                 | Unit 3          |                 | Unit 4          |                 | Unit 5          |                 | Unit 6          |                 |
| Month        | SO <sub>x</sub> | NO <sub>x</sub> | SO <sub>x</sub> | NO <sub>x</sub> | SO <sub>x</sub> | NO <sub>x</sub> | SO <sub>x</sub> | NO <sub>x</sub> | SO <sub>x</sub> | NO <sub>x</sub> | SO <sub>x</sub> | NO <sub>x</sub> |
| Feb-24       | 98.08%          | 98.08%          | 99.78%          | 98.95%          | 98.28%          | 98.28%          | 97.83%          | 97.83%          | 97.73%          | 97.73%          | OFF             | OFF             |
| Mar-24       | 99.73%          | 99.73%          | 100.00%         | 100.00%         | 99.62%          | 99.43%          | 99.73%          | 99.60%          | 99.73%          | 99.87%          | OFF             | OFF             |
| Apr-24       | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | OFF             | OFF             |
| May-24       | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 98.79%          | 98.79%          | 98.37%          | 98.37%          | OFF             | OFF             |
| Jun-24       | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | OFF             | OFF             |
| Jul-24       | 99.75%          | 99.89%          | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 99.46%          | 99.73%          | 100.00%         | 100.00%         | 73.40%          | 70.78%          |
| Aug-24       | 99.87%          | 100.00%         | 99.80%          | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         |
| Sep-24       | 100.00%         | 100.00%         | 100.00%         | 99.68%          | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 100.00%         |
| Oct-24       | 99.85%          | 100.00%         | 99.58%          | 99.72%          | 0.00%           | 0.00%           | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 99.65%          | 99.65%          |
| Nov-24       | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 0.00%           | 0.00%           | 100.00%         | 100.00%         | 100.00%         | 100.00%         | 99.86%          | 100.00%         |
| Dec-24       | 57.50%          | 57.50%          | 37.50%          | 37.50%          | 0.00%           | 0.00%           | 79.71%          | 79.71%          | 66.67%          | 66.67%          | 65.65%          | 65.73%          |
| Jan-25       | 99.26%          | 99.09%          | 99.33%          | 99.33%          | 0.00%           | 0.00%           | 100.00%         | 96.43%          | 100.00%         | 100.00%         | 100.00%         | 100.00%         |

| Oxygen Monitor Availability |         |         |         |         |         |        |
|-----------------------------|---------|---------|---------|---------|---------|--------|
|                             | Unit 1  | Unit 2  | Unit 3  | Unit 4  | Unit 5  | Unit 6 |
| Feb-24                      | 97.92%  | 99.78%  | 97.84%  | 97.67%  | 97.54%  | OFF    |
| Mar-24                      | 99.73%  | 100.00% | 99.24%  | 99.87%  | 99.87%  | OFF    |
| Apr-24                      | 100.00% | 100.00% | 99.86%  | 100.00% | 100.00% | OFF    |
| May-24                      | 99.97%  | 100.00% | 99.98%  | 98.79%  | 98.31%  | OFF    |
| Jun-24                      | 100.00% | 100.00% | 100.00% | 99.55%  | 36.78%  | OFF    |
| Jul-24                      | 99.89%  | 100.00% | 100.00% | 100.00% | 99.84%  | 50.17% |
| Aug-24                      | 99.87%  | 99.80%  | 99.87%  | 99.87%  | 100.00% | 99.48% |
| Sep-24                      | 100.00% | 99.90%  | 100.00% | 99.86%  | 99.72%  | 99.70% |
| Oct-24                      | 99.23%  | 99.55%  | 0.00%   | 99.87%  | 94.89%  | 99.28% |
| Nov-24                      | 100.00% | 100.00% | 0.00%   | 99.86%  | 84.89%  | 99.15% |
| Dec-24                      | 57.50%  | 37.50%  | 0.00%   | 79.71%  | 66.67%  | 65.73% |
| Jan-25                      | 99.55%  | 99.50%  | 0.00%   | 98.40%  | 99.43%  | 82.47% |

ADDENDUM TO MONTHLY EMISSIONS REPORT

14. EFFICIENCY

| ESP Efficiency (%) |         |         |               |         |         |               |
|--------------------|---------|---------|---------------|---------|---------|---------------|
|                    | Unit 1  | Unit 2  | Unit 3        | Unit 4  | Unit 5  | Unit 6        |
| Feb-24             | 99.834% | 99.719% | 99.697%       | 99.788% | 99.835% | Unit Off-line |
| Mar-24             | 99.519% | 99.614% | 99.393%       | 99.559% | 99.474% | Unit Off-line |
| Apr-24             | 99.901% | 99.698% | 99.774%       | 99.704% | 99.714% | Unit Off-line |
| May-24             | 99.906% | 99.582% | 99.771%       | 99.525% | 99.654% | Unit Off-line |
| Jun-24             | 99.89%  | 99.55%  | 99.82%        | 99.62%  | 99.75%  | Unit Off-line |
| Jul-24             | 99.848% | 99.125% | 99.796%       | 99.588% | 99.735% | 99.450%       |
| Aug-24             | 99.845% | 99.625% | 99.749%       | 99.755% | 99.769% | 99.907%       |
| Sep-24             | 99.789% | 99.660% | 99.775%       | 99.644% | 99.675% | 99.896%       |
| Oct-24             | 99.866% | 99.716% | Unit Off-line | 99.669% | 99.637% | 99.856%       |
| Nov-24             | 99.838% | 99.782% | Unit Off-line | 99.515% | 99.662% | 99.888%       |
| Dec-24             | 99.773% | 99.722% | Unit Off-line | 99.513% | 99.695% | 99.891%       |
| Jan-25             | 99.573% | 99.764% | Unit Off-line | 99.650% | 99.408% | 99.613%       |

15. REMARKS

| UNIT | MWLOSS | REASON                                                                | ACTUALSTARTDATE     | ACTUALENDDATE       |
|------|--------|-----------------------------------------------------------------------|---------------------|---------------------|
| 1    | 18     | ID fans not coping due to ducting damaged.                            | 2025/01/01 00:00:00 | 2025/01/03 15:48:00 |
| 1    | 192    | AM: High stack emissions due to no Suphur flow.                       | 2025/01/01 00:00:00 | 2025/01/03 01:52:00 |
| 1    | 116    | AM: High stack emissions due to no Suphur flow.                       | 2025/01/03 01:52:00 | 2025/01/03 02:15:00 |
| 1    | 96     | Spinning Reserve                                                      | 2025/01/03 09:20:00 | 2025/01/03 10:00:00 |
| 1    | 195    | Spinning Reserve                                                      | 2025/01/03 10:00:00 | 2025/01/03 11:19:00 |
| 1    | 593    | Unit tripped on low drum level.                                       | 2025/01/03 15:48:00 | 2025/01/03 19:51:00 |
| 1    | 593    | HP exhaust steam high unit tripped below 40% MCR                      | 2025/01/03 19:51:00 | 2025/01/03 20:08:00 |
| 1    | 297    | System Generated Ramp Event for Event id : 2014868                    | 2025/01/03 20:08:00 | 2025/01/03 21:38:00 |
| 1    | 45     | ID fan not coping                                                     | 2025/01/03 21:38:00 | 2025/01/03 21:42:00 |
| 1    | 18     | ID fan not coping                                                     | 2025/01/03 21:42:00 | 2025/01/13 05:37:00 |
| 1    | 190    | Spinning Reserve                                                      | 2025/01/05 21:37:00 | 2025/01/06 04:33:00 |
| 1    | 120    | Spinning Reserve                                                      | 2025/01/06 04:33:00 | 2025/01/06 04:52:00 |
| 1    | 40     | Spinning Reserve                                                      | 2025/01/06 04:52:00 | 2025/01/06 07:04:00 |
| 1    | 82     | Ash plant not running.                                                | 2025/01/07 22:47:00 | 2025/01/08 06:01:00 |
| 1    | 199    | T11A Motor replacement                                                | 2025/01/12 10:21:00 | 2025/01/12 21:28:00 |
| 1    | 593    | Unit tripped below 40% MCR due to IP Turbine steam admission failure. | 2025/01/13 05:37:00 | 2025/01/13 14:34:00 |
| 1    | 296    | System Generated Ramp Event for Event id : 2017784                    | 2025/01/13 14:34:00 | 2025/01/13 17:04:00 |
| 1    | 118    | B&F Mills defective                                                   | 2025/01/13 18:04:00 | 2025/01/13 20:35:00 |
| 1    | 50     | IP control valves 2 & 4 closed                                        | 2025/01/13 18:04:00 | 2025/01/13 19:28:00 |
| 1    | 18     | ID fans not coping due to ducting damaged.                            | 2025/01/13 20:35:00 | 2025/01/13 20:50:00 |
| 1    | 38     | ID fans not coping due to ducting damaged.                            | 2025/01/13 20:50:00 | 2025/01/14 09:47:00 |
| 1    | 206    | IP Control valves 1, 2 and 4 closed                                   | 2025/01/13 22:27:00 | 2025/01/14 04:38:00 |
| 1    | 98     | B-mill lube oil pump & F-mill JOP pressure low.                       | 2025/01/14 04:38:00 | 2025/01/14 09:47:00 |
| 1    | 18     | ID fans not coping due to ducting damaged.                            | 2025/01/14 09:47:00 | 2025/01/16 13:05:00 |
| 1    | 102    | Spinning Reserve                                                      | 2025/01/14 09:47:00 | 2025/01/14 12:49:00 |
| 1    | 45     | HP & IP control valve's faulty.                                       | 2025/01/14 12:49:00 | 2025/01/14 18:26:00 |
| 1    | 100    | HP & IP control valves faulty.                                        | 2025/01/14 18:26:00 | 2025/01/16 13:05:00 |
| 1    | 209    | Main turbine condenser tube leak repairs.                             | 2025/01/16 03:27:00 | 2025/01/16 13:05:00 |
| 1    | 593    | condenser vacuum deteriorated                                         | 2025/01/16 13:05:00 | 2025/01/16 21:53:00 |
| 1    | 413    | System Generated Ramp Event for Event id : 2018906 (Recalculated)     | 2025/01/16 21:53:00 | 2025/01/16 23:24:00 |
| 1    | 593    | Unit tripped on reverse power below block load                        | 2025/01/16 23:24:00 | 2025/01/18 03:19:00 |
| 1    | 593    | Boiler tube leak repairs                                              | 2025/01/18 03:19:00 | 2025/01/20 18:12:00 |
| 1    | 296    | System Generated Ramp Event for Event id : 2019033 First Outage       | 2025/01/20 18:12:00 | 2025/01/20 20:42:00 |
| 1    | 298    | System Generated Ramp Event for Event id : 2019335                    | 2025/01/20 20:42:00 | 2025/01/20 21:12:00 |
| 1    | 118    | IP Control valve not operating                                        | 2025/01/20 21:12:00 | 2025/01/21 05:12:00 |
| 1    | 99     | T12A Coal conveyor defective                                          | 2025/01/21 00:36:00 | 2025/01/21 01:18:00 |
| 1    | 134    | IP CV 4 and HP CV 1 closed.                                           | 2025/01/21 05:12:00 | 2025/01/21 15:35:00 |
| 1    | 84     | Spinning Reserve                                                      | 2025/01/21 07:24:00 | 2025/01/21 15:35:00 |
| 1    | 138    | IP CV 4 and HP CV 1 closed.                                           | 2025/01/21 15:35:00 | 2025/01/22 16:59:00 |
| 1    | 79     | Spinning Reserve                                                      | 2025/01/22 07:07:00 | 2025/01/22 15:06:00 |
| 1    | 108    | IP CV 4 and HP CV 1 closed.                                           | 2025/01/22 16:59:00 | 2025/01/22 17:23:00 |
| 1    | 116    | IP CV 4 and HP CV 1 closed.                                           | 2025/01/22 17:23:00 | 2025/01/22 20:31:00 |
| 1    | 48     | AM: IP CV2 closed.                                                    | 2025/01/22 20:31:00 | 2025/01/26 06:27:00 |

| UNIT | MWLOSS | REASON                                         | ACTUALSTARTDATE     | ACTUALENDDATE       |
|------|--------|------------------------------------------------|---------------------|---------------------|
| 1    | 170    | Spinning Reserve                               | 2025/01/23 14:06:00 | 2025/01/23 19:18:00 |
| 1    | 90     | Spinning Reserve                               | 2025/01/23 19:18:00 | 2025/01/23 19:55:00 |
| 1    | 170    | AM: SSC Standing.                              | 2025/01/24 03:10:00 | 2025/01/24 09:23:00 |
| 1    | 70     | RHO Pricip casing repairs                      | 2025/01/25 00:23:00 | 2025/01/26 00:00:00 |
| 1    | 72     | RHO pricip casing Still air test               | 2025/01/26 00:00:00 | 2025/01/26 06:27:00 |
| 1    | 37     | IP CV2 close                                   | 2025/01/26 06:27:00 | 2025/01/27 17:46:00 |
| 1    | 77     | Spinning Reserve                               | 2025/01/26 10:02:00 | 2025/01/26 12:06:00 |
| 1    | 167    | Spinning Reserve                               | 2025/01/26 12:06:00 | 2025/01/26 14:31:00 |
| 1    | 48     | AM: IP CV2 close                               | 2025/01/27 17:46:00 | 2025/01/28 02:12:00 |
| 1    | 38     | AM: IP CV2 Closed.                             | 2025/01/28 02:12:00 | 2025/01/28 07:28:00 |
| 1    | 45     | AM: IP CV2 Closed.                             | 2025/01/28 07:28:00 | 2025/01/28 08:32:00 |
| 1    | 38     | AM: IP CV2 Closed.                             | 2025/01/28 08:32:00 | 2025/01/30 07:06:00 |
| 1    | 38     | ID Fans not coping                             | 2025/01/30 07:06:00 | 2025/01/30 08:00:00 |
| 1    | 38     | Correlation test                               | 2025/01/30 08:00:00 | 2025/01/30 14:26:00 |
| 1    | 38     | ID Fans not coping                             | 2025/01/30 14:26:00 | 2025/01/31 23:59:59 |
| 2    | 23     | ID fans not coping.                            | 2025/01/01 00:00:00 | 2025/01/05 01:17:00 |
| 2    | 93     | Spinning Reserve                               | 2025/01/01 17:18:00 | 2025/01/01 17:47:00 |
| 2    | 95     | C&F Mill feeder fires                          | 2025/01/01 17:47:00 | 2025/01/05 01:17:00 |
| 2    | 100    | Spinning Reserve                               | 2025/01/02 07:04:00 | 2025/01/02 08:57:00 |
| 2    | 100    | Spinning Reserve                               | 2025/01/02 10:07:00 | 2025/01/02 15:57:00 |
| 2    | 97     | EF: Manual rapping                             | 2025/01/02 21:07:00 | 2025/01/03 03:44:00 |
| 2    | 17     | ID fans not coping                             | 2025/01/05 01:17:00 | 2025/01/05 05:31:00 |
| 2    | 34     | ID fan not coping                              | 2025/01/05 05:31:00 | 2025/01/09 08:25:00 |
| 2    | 34     | High stack emissions                           | 2025/01/05 19:41:00 | 2025/01/06 00:00:00 |
| 2    | 149    | Spinning Reserve                               | 2025/01/05 21:23:00 | 2025/01/05 22:30:00 |
| 2    | 137    | Spinning Reserve                               | 2025/01/05 22:30:00 | 2025/01/06 00:00:00 |
| 2    | 160    | Spinning Reserve                               | 2025/01/06 00:00:00 | 2025/01/06 04:41:00 |
| 2    | 76     | Spinning Reserve                               | 2025/01/06 04:41:00 | 2025/01/06 16:32:00 |
| 2    | 68     | Ash plant not running.                         | 2025/01/07 22:51:00 | 2025/01/08 06:57:00 |
| 2    | 76     | AM: High hopper levels.                        | 2025/01/08 06:57:00 | 2025/01/08 10:57:00 |
| 2    | 176    | EF: Dust plant standing                        | 2025/01/08 10:57:00 | 2025/01/09 07:34:00 |
| 2    | 84     | EF: High hopper levels                         | 2025/01/09 07:34:00 | 2025/01/09 08:25:00 |
| 2    | 36     | EF: ID fans not coping due to ducting damaged. | 2025/01/09 08:25:00 | 2025/01/10 04:39:00 |
| 2    | 80     | AM: E mill grease system fault.                | 2025/01/09 17:04:00 | 2025/01/10 04:39:00 |
| 2    | 33     | EF: ID fans not coping due to ducting damaged. | 2025/01/10 04:39:00 | 2025/01/18 08:47:00 |
| 2    | 77     | Spinning Reserve                               | 2025/01/12 03:37:00 | 2025/01/12 04:53:00 |
| 2    | 7      | Spinning Reserve                               | 2025/01/12 04:53:00 | 2025/01/12 05:26:00 |
| 2    | 78     | Spinning Reserve                               | 2025/01/12 06:46:00 | 2025/01/12 08:07:00 |
| 2    | 182    | Spinning Reserve                               | 2025/01/12 08:07:00 | 2025/01/12 11:11:00 |
| 2    | 103    | Spinning Reserve                               | 2025/01/12 11:11:00 | 2025/01/12 11:51:00 |
| 2    | 85     | Spinning Reserve                               | 2025/01/12 16:29:00 | 2025/01/12 19:17:00 |
| 2    | 83     | Spinning Reserve                               | 2025/01/14 09:53:00 | 2025/01/14 12:15:00 |
| 2    | 35     | LH ID fan fault                                | 2025/01/15 17:35:00 | 2025/01/18 08:46:00 |
| 2    | 42     | Spinning Reserve                               | 2025/01/16 00:04:00 | 2025/01/16 01:24:00 |
| 2    | 147    | Spinning Reserve                               | 2025/01/16 01:24:00 | 2025/01/16 02:10:00 |
| 2    | 50     | Spinning Reserve                               | 2025/01/16 02:10:00 | 2025/01/16 03:02:00 |
| 2    | 47     | 5th mill not available                         | 2025/01/17 22:55:00 | 2025/01/18 00:09:00 |
| 2    | 53     | EF: ID fans not coping due to ducting damaged. | 2025/01/18 08:47:00 | 2025/01/18 13:23:00 |
| 2    | 48     | EF: ID fans not coping due to ducting damaged. | 2025/01/18 13:23:00 | 2025/01/20 10:22:00 |
| 2    | 5      | LH ID fan fault                                | 2025/01/18 15:10:00 | 2025/01/18 16:42:00 |
| 2    | 17     | LH ID fan fault                                | 2025/01/18 16:42:00 | 2025/01/20 10:22:00 |
| 2    | 51     | Spinning Reserve                               | 2025/01/18 21:48:00 | 2025/01/18 22:59:00 |
| 2    | 50     | Spinning Reserve                               | 2025/01/19 01:18:00 | 2025/01/19 02:30:00 |
| 2    | 51     | Spinning Reserve                               | 2025/01/19 07:10:00 | 2025/01/19 08:33:00 |
| 2    | 139    | Spinning Reserve                               | 2025/01/19 08:33:00 | 2025/01/19 13:36:00 |
| 2    | 73     | Spinning Reserve                               | 2025/01/19 13:36:00 | 2025/01/19 15:12:00 |
| 2    | 150    | SSC tension sprocket bolts replacement         | 2025/01/19 23:57:00 | 2025/01/20 04:54:00 |
| 2    | 50     | A-mill program faulty                          | 2025/01/20 04:54:00 | 2025/01/20 05:19:00 |
| 2    | 65     | EF: ID fans not coping due to ducting damaged. | 2025/01/20 10:22:00 | 2025/01/21 16:15:00 |
| UNIT | MWLOSS | REASON                                         | ACTUALSTARTDATE     | ACTUALENDDATE       |
| 2    | 49     | Spinning Reserve                               | 2025/01/21 07:03:00 | 2025/01/21 09:42:00 |



| 2    | 132    | Spinning Reserve                                           | 2025/01/21 09:42:00 | 2025/01/21 09:57:00 |
|------|--------|------------------------------------------------------------|---------------------|---------------------|
| 2    | 141    | Spinning Reserve                                           | 2025/01/21 09:57:00 | 2025/01/21 16:15:00 |
| 2    | 58     | EF: ID fans not coping due to ducting damaged.             | 2025/01/21 16:15:00 | 2025/01/22 00:13:00 |
| 2    | 57     | Spinning Reserve                                           | 2025/01/21 20:37:00 | 2025/01/22 00:13:00 |
| 2    | 63     | EF: ID fans not coping due to ducting damaged.             | 2025/01/22 00:13:00 | 2025/01/23 20:36:00 |
| 2    | 46     | Spinning Reserve                                           | 2025/01/22 07:19:00 | 2025/01/22 08:55:00 |
| 2    | 149    | Spinning Reserve                                           | 2025/01/22 08:55:00 | 2025/01/22 16:09:00 |
| 2    | 152    | Safety valves defective.                                   | 2025/01/22 16:09:00 | 2025/01/22 16:52:00 |
| 2    | 148    | Safety valves defective.                                   | 2025/01/22 16:52:00 | 2025/01/23 06:37:00 |
| 2    | 55     | Safety valves defective                                    | 2025/01/23 06:37:00 | 2025/01/23 20:36:00 |
| 2    | 57     | Spinning Reserve                                           | 2025/01/23 09:51:00 | 2025/01/23 20:36:00 |
| 2    | 118    | AM: Correlation test at 500Mw.                             | 2025/01/23 20:36:00 | 2025/01/24 02:09:00 |
| 2    | 218    | AM: Correlation test in progress.                          | 2025/01/24 02:09:00 | 2025/01/24 05:53:00 |
| 2    | 64     | AM: ID Fans not coping. Ducting.                           | 2025/01/24 05:53:00 | 2025/01/25 10:36:00 |
| 2    | 54     | High stack emissions                                       | 2025/01/24 20:58:00 | 2025/01/25 05:03:00 |
| 2    | 593    | Boiler tube leak.                                          | 2025/01/25 10:46:00 | 2025/01/31 23:59:59 |
| 3    | 593    | IR ESP & S03 PLANT                                         | 2025/01/01 00:00:00 | 2025/01/31 23:59:59 |
| 4    | 593    | LP turbine blades inspection                               | 2025/01/01 00:00:00 | 2025/01/14 12:00:00 |
| 4    | 593    | System Generated Slip Event linked to PCLF Event : 2012065 | 2025/01/14 12:00:00 | 2025/01/15 15:14:00 |
| 4    | 297    | System Generated Ramp Event for Event id : 2012065         | 2025/01/15 15:14:00 | 2025/01/15 18:14:00 |
| 4    | 348    | EFP A on PTW and BFPT contaminated.                        | 2025/01/15 18:14:00 | 2025/01/16 00:05:00 |
| 4    | 145    | A&F mills not available.                                   | 2025/01/16 00:05:00 | 2025/01/16 01:26:00 |
| 4    | 100    | Spinning Reserve                                           | 2025/01/16 01:09:00 | 2025/01/16 07:00:00 |
| 4    | 119    | A&F mills not available.                                   | 2025/01/16 01:26:00 | 2025/01/16 03:22:00 |
| 4    | 38     | PA flow high.                                              | 2025/01/16 03:22:00 | 2025/01/18 10:22:00 |
| 4    | 50     | AM: Super heater safety v/v lifting.                       | 2025/01/16 08:38:00 | 2025/01/16 14:33:00 |
| 4    | 80     | AM: Main CEP A high motor Amps and A pump O/C.             | 2025/01/16 14:33:00 | 2025/01/18 10:22:00 |
| 4    | 50     | Spinning Reserve                                           | 2025/01/17 09:49:00 | 2025/01/17 12:27:00 |
| 4    | 25     | Spinning Reserve                                           | 2025/01/17 12:27:00 | 2025/01/17 12:47:00 |
| 4    | 108    | AM: Main CEP A high motor Amps and A pump O/C.             | 2025/01/18 10:22:00 | 2025/01/18 13:25:00 |
| 4    | 99     | AM: Main CEP A motor high Amps and A pump O/C              | 2025/01/18 13:25:00 | 2025/01/19 21:37:00 |
| 4    | 21     | Spinning Reserve                                           | 2025/01/19 06:59:00 | 2025/01/19 08:20:00 |
| 4    | 119    | Spinning Reserve                                           | 2025/01/19 08:20:00 | 2025/01/19 13:26:00 |
| 4    | 41     | Spinning Reserve                                           | 2025/01/19 13:26:00 | 2025/01/19 13:47:00 |
| 4    | 18     | Spinning Reserve                                           | 2025/01/19 13:47:00 | 2025/01/19 14:36:00 |
| 4    | 21     | Spinning Reserve                                           | 2025/01/19 14:36:00 | 2025/01/19 16:50:00 |
| 4    | 140    | E-mill short feeder faulty and F-mill grease system faulty | 2025/01/19 21:37:00 | 2025/01/20 01:33:00 |
| 4    | 66     | A&E long feeders not available.                            | 2025/01/20 01:33:00 | 2025/01/20 03:22:00 |
| 4    | 78     | Super heater safety v/v lifting.                           | 2025/01/20 03:22:00 | 2025/01/23 08:04:00 |
| 4    | 40     | E Mill long feeder blocked                                 | 2025/01/21 00:58:00 | 2025/01/21 01:30:00 |
| 4    | 140    | Spinning Reserve                                           | 2025/01/21 11:29:00 | 2025/01/21 15:44:00 |
| 4    | 270    | BFPT Control valve repair                                  | 2025/01/21 21:43:00 | 2025/01/22 08:06:00 |
| 4    | 140    | Spinning Reserve                                           | 2025/01/22 08:06:00 | 2025/01/22 08:36:00 |
| 4    | 40     | Spinning Reserve                                           | 2025/01/23 07:34:00 | 2025/01/23 08:04:00 |
| 4    | 80     | Super heater safety v/v lifting.                           | 2025/01/23 08:04:00 | 2025/01/25 08:07:00 |
| 4    | 36     | Super heater safety v/v lifting.                           | 2025/01/25 08:07:00 | 2025/01/26 01:11:00 |
| 4    | 593    | Boiler drum level                                          | 2025/01/26 01:11:00 | 2025/01/26 04:36:00 |
| 4    | 297    | System Generated Ramp Event for Event id : 2021680         | 2025/01/26 04:36:00 | 2025/01/26 06:06:00 |
| 4    | 150    | Boiler pressure unstable                                   | 2025/01/26 06:06:00 | 2025/01/26 06:14:00 |
| 4    | 106    | Boiler pressure unstable                                   | 2025/01/26 06:14:00 | 2025/01/27 07:59:00 |
| 4    | 128    | Boiler pressure unstable.                                  | 2025/01/27 07:59:00 | 2025/01/27 10:34:00 |
| 4    | 593    | Boiler tube leak.                                          | 2025/01/27 10:34:00 | 2025/01/31 23:59:59 |
| 5    | 593    | Boiler tube leak repairs                                   | 2025/01/01 00:00:00 | 2025/01/06 07:53:00 |
| 5    | 297    | System Generated Ramp Event for Event id : 2013294         | 2025/01/06 07:53:00 | 2025/01/06 10:53:00 |
| 5    | 68     | Tube leak detector reading high                            | 2025/01/06 10:53:00 | 2025/01/06 10:55:00 |
| 5    | 57     | Tube leak detector reading high                            | 2025/01/06 10:55:00 | 2025/01/06 11:32:00 |
| 5    | 18     | Tube leak detector reading high                            | 2025/01/06 11:32:00 | 2025/01/06 12:00:00 |
| 5    | 24     | ID fans not coping                                         | 2025/01/06 12:00:00 | 2025/01/06 17:30:00 |
| UNIT | MWLOSS | REASON                                                     | ACTUALSTARTDATE     | ACTUALENDDATE       |
| 5    | 94     | Spinning Reserve                                           | 2025/01/06 13:40:00 | 2025/01/06 17:30:00 |
| 5    | 28     | ID fans not coping                                         | 2025/01/06 17:30:00 | 2025/01/10 10:05:00 |
| 5    | 90     | EF: Coal constraints.                                      | 2025/01/07 07:59:00 | 2025/01/07 11:41:00 |

| 5    | 190    | EF: Coal constraints                          | 2025/01/07 11:41:00 | 2025/01/07 17:16:00 |
|------|--------|-----------------------------------------------|---------------------|---------------------|
| 5    | 90     | EF: Coal constraints                          | 2025/01/07 17:16:00 | 2025/01/07 20:00:00 |
| 5    | 190    | Coal constraints                              | 2025/01/07 20:00:00 | 2025/01/08 05:43:00 |
| 5    | 229    | EF: Coal constraints                          | 2025/01/08 05:43:00 | 2025/01/08 08:39:00 |
| 5    | 190    | EF: Coal constraints                          | 2025/01/08 08:39:00 | 2025/01/08 16:04:00 |
| 5    | 90     | EF: Coal constraints                          | 2025/01/08 16:04:00 | 2025/01/08 22:32:00 |
| 5    | 190    | EF: Coal constraints                          | 2025/01/08 22:32:00 | 2025/01/09 04:29:00 |
| 5    | 210    | EF: Coal constraints                          | 2025/01/09 04:29:00 | 2025/01/10 00:20:00 |
| 5    | 189    | EF: Coal constraints                          | 2025/01/10 00:20:00 | 2025/01/10 06:25:00 |
| 5    | 172    | EF: Coal constraints                          | 2025/01/10 06:25:00 | 2025/01/10 06:51:00 |
| 5    | 160    | B & D Mill coal constarin                     | 2025/01/10 06:51:00 | 2025/01/10 10:09:00 |
| 5    | 38     | ID fans not coping                            | 2025/01/10 10:05:00 | 2025/01/10 18:22:00 |
| 5    | 21     | ID fans not coping                            | 2025/01/10 18:22:00 | 2025/01/14 05:26:00 |
| 5    | 147    | EF:High stack emissions                       | 2025/01/11 10:31:00 | 2025/01/11 19:25:00 |
| 5    | 197    | EF: High stack emissions.                     | 2025/01/11 19:25:00 | 2025/01/12 04:31:00 |
| 5    | 147    | B&F Mills unavailable                         | 2025/01/12 12:50:00 | 2025/01/12 13:16:00 |
| 5    | 97     | Manual rapping                                | 2025/01/13 21:27:00 | 2025/01/14 05:26:00 |
| 5    | 38     | ID fans not coping                            | 2025/01/14 05:26:00 | 2025/01/18 12:24:00 |
| 5    | 180    | Spinning Reserve                              | 2025/01/14 15:08:00 | 2025/01/14 18:11:00 |
| 5    | 82     | B mill not available                          | 2025/01/15 09:28:00 | 2025/01/15 15:46:00 |
| 5    | 179    | Coal preservation                             | 2025/01/16 21:54:00 | 2025/01/17 04:52:00 |
| 5    | 88     | Coal conservation                             | 2025/01/17 22:12:00 | 2025/01/17 22:47:00 |
| 5    | 175    | Coal conservation                             | 2025/01/17 22:47:00 | 2025/01/18 05:01:00 |
| 5    | 28     | EF: ID fans not coping due to ducting damage. | 2025/01/18 12:24:00 | 2025/01/27 17:23:00 |
| 5    | 41     | EF: High stack emissions                      | 2025/01/18 18:11:00 | 2025/01/18 19:29:00 |
| 5    | 190    | High stack emissions.                         | 2025/01/18 19:29:00 | 2025/01/19 00:00:00 |
| 5    | 90     | LH inner precip casing repairs.               | 2025/01/19 00:00:00 | 2025/01/19 04:44:00 |
| 5    | 100    | High stack emissions                          | 2025/01/19 00:00:00 | 2025/01/19 04:44:00 |
| 5    | 90     | LH inner precip casing repairs.               | 2025/01/19 04:44:00 | 2025/01/19 23:31:00 |
| 5    | 98     | Spinning Reserve                              | 2025/01/19 08:29:00 | 2025/01/19 13:24:00 |
| 5    | 100    | Manual rapping.                               | 2025/01/19 21:17:00 | 2025/01/19 23:31:00 |
| 5    | 190    | Coal conservation                             | 2025/01/19 23:31:00 | 2025/01/20 04:59:00 |
| 5    | 87     | EF: High stack emissions.                     | 2025/01/20 09:22:00 | 2025/01/20 22:41:00 |
| 5    | 189    | Coal preservation                             | 2025/01/20 22:41:00 | 2025/01/21 04:38:00 |
| 5    | 188    | Coal preservation                             | 2025/01/21 21:08:00 | 2025/01/22 04:45:00 |
| 5    | 190    | Coal preservation                             | 2025/01/22 21:28:00 | 2025/01/22 22:41:00 |
| 5    | 190    | For manual rapping                            | 2025/01/24 20:50:00 | 2025/01/25 05:09:00 |
| 5    | 90     | B&C mills not available                       | 2025/01/25 05:09:00 | 2025/01/26 00:00:00 |
| 5    | 90     | RHO pricip casing repairs                     | 2025/01/26 00:00:00 | 2025/01/27 00:00:00 |
| 5    | 90     | AM: RHO Precip inlet damper flity.            | 2025/01/27 00:00:00 | 2025/01/27 05:59:00 |
| 5    | 188    | Boiler tube leak.                             | 2025/01/27 10:01:00 | 2025/01/27 17:23:00 |
| 5    | 593    | Boiler tube leak.                             | 2025/01/27 17:23:00 | 2025/01/31 23:59:59 |
| 6    | 116    | Spinning Reserve                              | 2025/01/01 17:16:00 | 2025/01/01 17:58:00 |
| 6    | 218    | EF: Manual rapping.                           | 2025/01/01 21:58:00 | 2025/01/02 00:00:00 |
| 6    | 218    | High stack emissions.                         | 2025/01/02 00:00:00 | 2025/01/02 10:39:00 |
| 6    | 118    | A mill pf leak repairs.                       | 2025/01/02 10:39:00 | 2025/01/02 11:44:00 |
| 6    | 100    | Spinning Reserve                              | 2025/01/02 10:39:00 | 2025/01/02 10:58:00 |
| 6    | 50     | Spinning Reserve                              | 2025/01/02 10:58:00 | 2025/01/02 11:44:00 |
| 6    | 168    | Spinning Reserve                              | 2025/01/02 11:44:00 | 2025/01/02 17:09:00 |
| 6    | 325    | AM: EFP B tripped                             | 2025/01/02 20:25:00 | 2025/01/02 21:41:00 |
| 6    | 118    | AM: F mill ball loading hopper repairs.       | 2025/01/02 23:56:00 | 2025/01/03 01:52:00 |
| 6    | 118    | Spinning Reserve                              | 2025/01/03 07:18:00 | 2025/01/03 09:24:00 |
| 6    | 218    | Spinning Reserve                              | 2025/01/03 09:24:00 | 2025/01/03 10:18:00 |
| 6    | 118    | Spinning Reserve                              | 2025/01/03 10:18:00 | 2025/01/03 12:43:00 |
| 6    | 20     | ID fan vanes not coping                       | 2025/01/05 07:49:00 | 2025/01/05 14:04:00 |
| 6    | 211    | Spinning Reserve                              | 2025/01/05 21:44:00 | 2025/01/05 22:03:00 |
| UNIT | MWLOSS | REASON                                        | ACTUALSTARTDATE     | ACTUALENDDATE       |
| 6    | 168    | Spinning Reserve                              | 2025/01/05 22:03:00 | 2025/01/06 04:27:00 |
| 6    | 120    | Spinning Reserve                              | 2025/01/06 04:27:00 | 2025/01/06 08:16:00 |
| 6    | 118    | Spinning Reserve                              | 2025/01/06 13:40:00 | 2025/01/06 17:35:00 |
| 6    | 80     | Spinning Reserve                              | 2025/01/06 22:04:00 | 2025/01/06 23:16:00 |
| 6    | 118    | C mill PF leaks.                              | 2025/01/07 00:18:00 | 2025/01/07 17:17:00 |

| 6    | 50     | Coal constrain A&D running low.                                   | 2025/01/07 06:15:00 | 2025/01/07 07:40:00 |
|------|--------|-------------------------------------------------------------------|---------------------|---------------------|
| 6    | 98     | EF: Coal constraints.                                             | 2025/01/07 07:40:00 | 2025/01/07 17:17:00 |
| 6    | 120    | EF: Coal constraints.                                             | 2025/01/07 17:17:00 | 2025/01/07 19:59:00 |
| 6    | 214    | Coal constraints                                                  | 2025/01/07 19:59:00 | 2025/01/08 06:54:00 |
| 6    | 258    | EF: Coal constraints                                              | 2025/01/08 06:54:00 | 2025/01/08 16:19:00 |
| 6    | 118    | EF: Coal constraints.                                             | 2025/01/08 16:19:00 | 2025/01/08 22:45:00 |
| 6    | 100    | B-mill not available                                              | 2025/01/08 20:07:00 | 2025/01/08 20:56:00 |
| 6    | 218    | EF: Coal constraints                                              | 2025/01/08 22:45:00 | 2025/01/09 00:32:00 |
| 6    | 268    | EF: Coal constraints                                              | 2025/01/09 00:32:00 | 2025/01/09 05:14:00 |
| 6    | 593    | Unit tripped below 40% MCR on Black furnace.                      | 2025/01/09 05:14:00 | 2025/01/09 17:11:00 |
| 6    | 296    | System Generated Ramp Event for Event id : 2016679                | 2025/01/09 17:11:00 | 2025/01/09 19:41:00 |
| 6    | 279    | A&F mills bunker levels low                                       | 2025/01/09 18:31:00 | 2025/01/09 18:33:00 |
| 6    | 266    | A&F mills bunker levels low                                       | 2025/01/09 18:33:00 | 2025/01/10 06:43:00 |
| 6    | 168    | A&F Mills low bunker levels                                       | 2025/01/10 06:43:00 | 2025/01/10 09:42:00 |
| 6    | 206    | A&F Mills low bunker levels                                       | 2025/01/10 09:42:00 | 2025/01/10 10:04:00 |
| 6    | 218    | A&F Mills bunker levels low                                       | 2025/01/10 10:04:00 | 2025/01/10 11:22:00 |
| 6    | 178    | PA Duct pressure low                                              | 2025/01/10 11:22:00 | 2025/01/10 14:22:00 |
| 6    | 25     | ID fans not coping.                                               | 2025/01/10 14:22:00 | 2025/01/12 04:54:00 |
| 6    | 43     | Spinning Reserve                                                  | 2025/01/11 20:01:00 | 2025/01/11 21:31:00 |
| 6    | 78     | Spinning Reserve                                                  | 2025/01/11 21:31:00 | 2025/01/11 21:49:00 |
| 6    | 64     | Spinning Reserve                                                  | 2025/01/11 21:49:00 | 2025/01/11 22:18:00 |
| 6    | 45     | Spinning Reserve                                                  | 2025/01/11 22:18:00 | 2025/01/12 04:54:00 |
| 6    | 28     | ID fans not coping                                                | 2025/01/12 04:54:00 | 2025/01/21 04:43:00 |
| 6    | 41     | Spinning Reserve                                                  | 2025/01/12 06:40:00 | 2025/01/12 11:47:00 |
| 6    | 90     | D mill feeders on fire                                            | 2025/01/13 23:06:00 | 2025/01/14 00:10:00 |
| 6    | 40     | Spinning Reserve                                                  | 2025/01/14 09:43:00 | 2025/01/14 11:56:00 |
| 6    | 90     | Spinning Reserve                                                  | 2025/01/14 14:50:00 | 2025/01/14 18:00:00 |
| 6    | 90     | Coal constraints.                                                 | 2025/01/14 18:00:00 | 2025/01/15 06:07:00 |
| 6    | 90     | Spinning Reserve                                                  | 2025/01/16 00:04:00 | 2025/01/16 01:56:00 |
| 6    | 90     | Spinning Reserve                                                  | 2025/01/16 02:23:00 | 2025/01/16 03:07:00 |
| 6    | 90     | A-mill bunker empty                                               | 2025/01/16 10:28:00 | 2025/01/16 12:25:00 |
| 6    | 90     | Coal preservation                                                 | 2025/01/16 22:11:00 | 2025/01/17 04:39:00 |
| 6    | 90     | E-mill DE jacking oil pump oil leak repairs.                      | 2025/01/17 04:39:00 | 2025/01/17 05:38:00 |
| 6    | 90     | Coal conservation                                                 | 2025/01/17 22:13:00 | 2025/01/18 05:51:00 |
| 6    | 40     | Spinning Reserve                                                  | 2025/01/18 21:47:00 | 2025/01/18 23:09:00 |
| 6    | 90     | Coal conservation                                                 | 2025/01/19 00:40:00 | 2025/01/19 04:59:00 |
| 6    | 90     | Spinning Reserve                                                  | 2025/01/19 07:16:00 | 2025/01/19 13:34:00 |
| 6    | 62     | Coal preservation                                                 | 2025/01/20 22:27:00 | 2025/01/21 04:44:00 |
| 6    | 33     | ID fans not coping                                                | 2025/01/21 04:43:00 | 2025/01/21 15:30:00 |
| 6    | 37     | Spinning Reserve                                                  | 2025/01/21 06:58:00 | 2025/01/21 15:30:00 |
| 6    | 28     | ID fans not coping                                                | 2025/01/21 15:30:00 | 2025/01/22 04:51:00 |
| 6    | 40     | Coal preservation                                                 | 2025/01/21 21:12:00 | 2025/01/22 04:51:00 |
| 6    | 32     | ID fans not coping                                                | 2025/01/22 04:51:00 | 2025/01/24 10:12:00 |
| 6    | 46     | Spinning Reserve                                                  | 2025/01/22 07:07:00 | 2025/01/22 15:07:00 |
| 6    | 18     | 100% Feedwater valve defective                                    | 2025/01/22 19:47:00 | 2025/01/22 21:15:00 |
| 6    | 40     | AM: Planed coal preservation. Silo 5 o/c.                         | 2025/01/22 21:15:00 | 2025/01/22 22:25:00 |
| 6    | 40     | Spinning Reserve                                                  | 2025/01/23 06:52:00 | 2025/01/23 09:42:00 |
| 6    | 86     | Spinning Reserve                                                  | 2025/01/23 09:42:00 | 2025/01/23 19:20:00 |
| 6    | 593    | Main steam stop valve's repairs.                                  | 2025/01/24 10:12:00 | 2025/01/27 14:36:00 |
| 6    | 542    | System Generated Ramp Event for Event id : 2021233 (Recalculated) | 2025/01/27 14:36:00 | 2025/01/27 15:06:00 |
| 6    | 593    | Poor vacuum.                                                      | 2025/01/27 15:06:00 | 2025/01/27 16:39:00 |
| 6    | 297    | System Generated Ramp Event for Event id : 2022083                | 2025/01/27 16:39:00 | 2025/01/27 18:09:00 |
| 6    | 28     | EF: ID fans not coping due to ducting damage.                     | 2025/01/27 18:16:00 | 2025/01/28 03:04:00 |
| 6    | 88     | AM: Mill F g/box oil leak.                                        | 2025/01/27 22:10:00 | 2025/01/28 03:04:00 |
| UNIT | MWLOSS | REASON                                                            | ACTUALSTARTDATE     | ACTUALENDDATE       |
| 6    | 18     | EF: ID fans not coping due to ducting damage.                     | 2025/01/28 03:04:00 | 2025/01/29 07:27:00 |
| 6    | 21     | A&B EFP excessive MW consumption                                  | 2025/01/28 11:05:00 | 2025/01/29 07:25:00 |